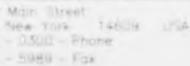
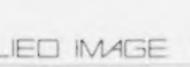
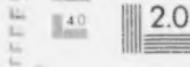
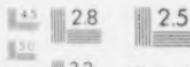


MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



APPLIED IMAGE Inc

1653 East Main Street  
Rochester, New York 14608 USA  
(716) 452-0500 - Phone  
(716) 288-5989 - Fax

M32-548

CANADA  
DEPARTMENT OF MINES

Hon. SIR JAMES A. LOUGHEED, MINISTER; CHARLES CAMSELL, ACTING DEPUTY MINISTER

MINES BRANCH  
EUGENE HAANEL, PH.D., DIRECTOR

THE  
PRODUCTION OF COAL AND COKE  
IN  
CANADA

During the Calendar Year  
1919

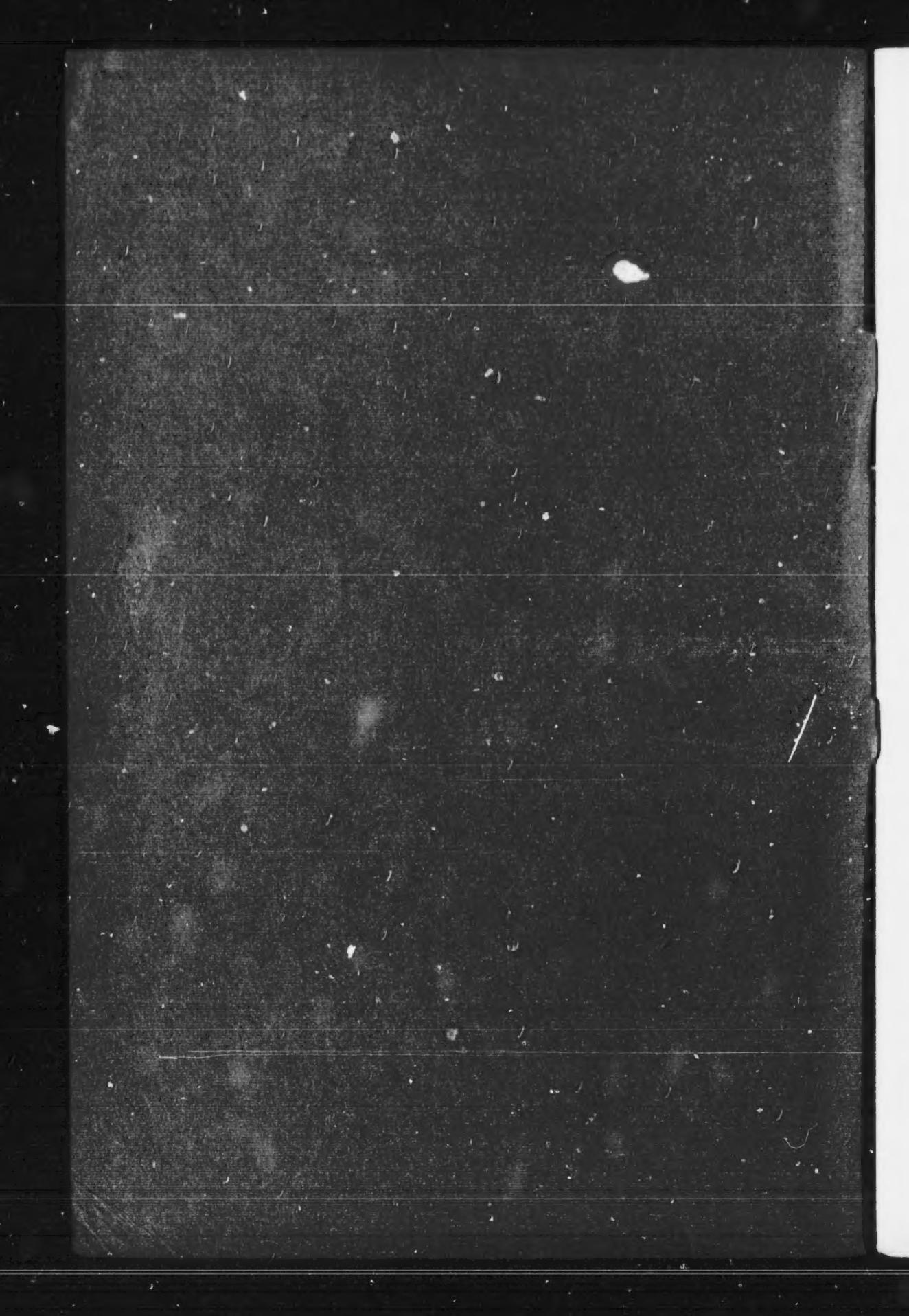
John McLeish, B.A.

*Chief of the Division of Mineral Resources and Statistics*



OTTAWA  
THOMAS MULVEY  
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY  
1921

No. 548



CANADA  
DEPARTMENT OF MINES

Hon. SIR JAMES A. LOUGHREED, MINISTER; CHARLES CAMSELL, ACTING DEPUTY MINISTER

MINES BRANCH  
EUGENE HAANEL, PH.D., DIRECTOR

THE  
PRODUCTION OF COAL AND COKE  
IN  
CANADA

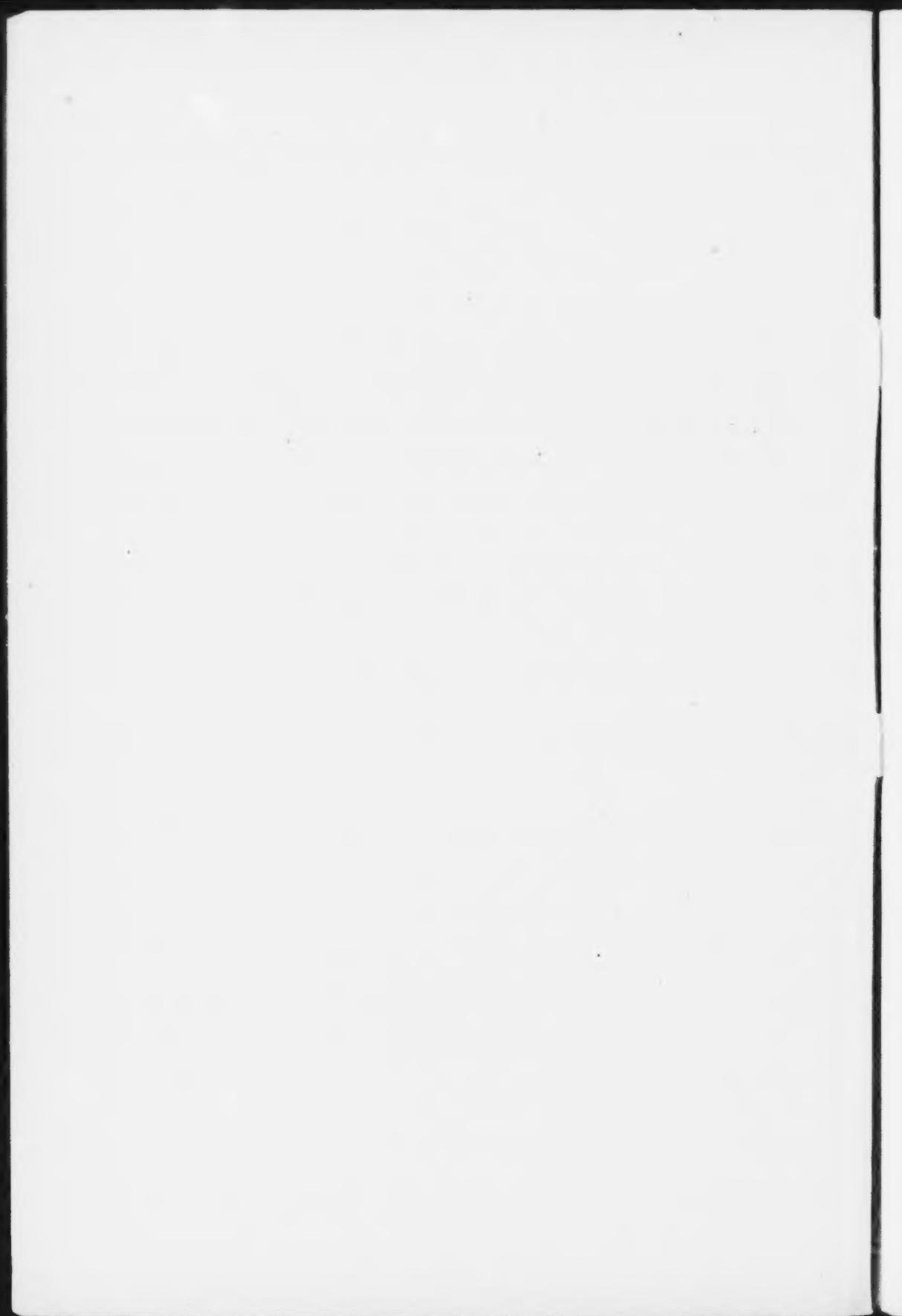
During the Calendar Year  
1919

John McLeish, B.A.

*Chief of the Division of Mineral Resources and Statistics*

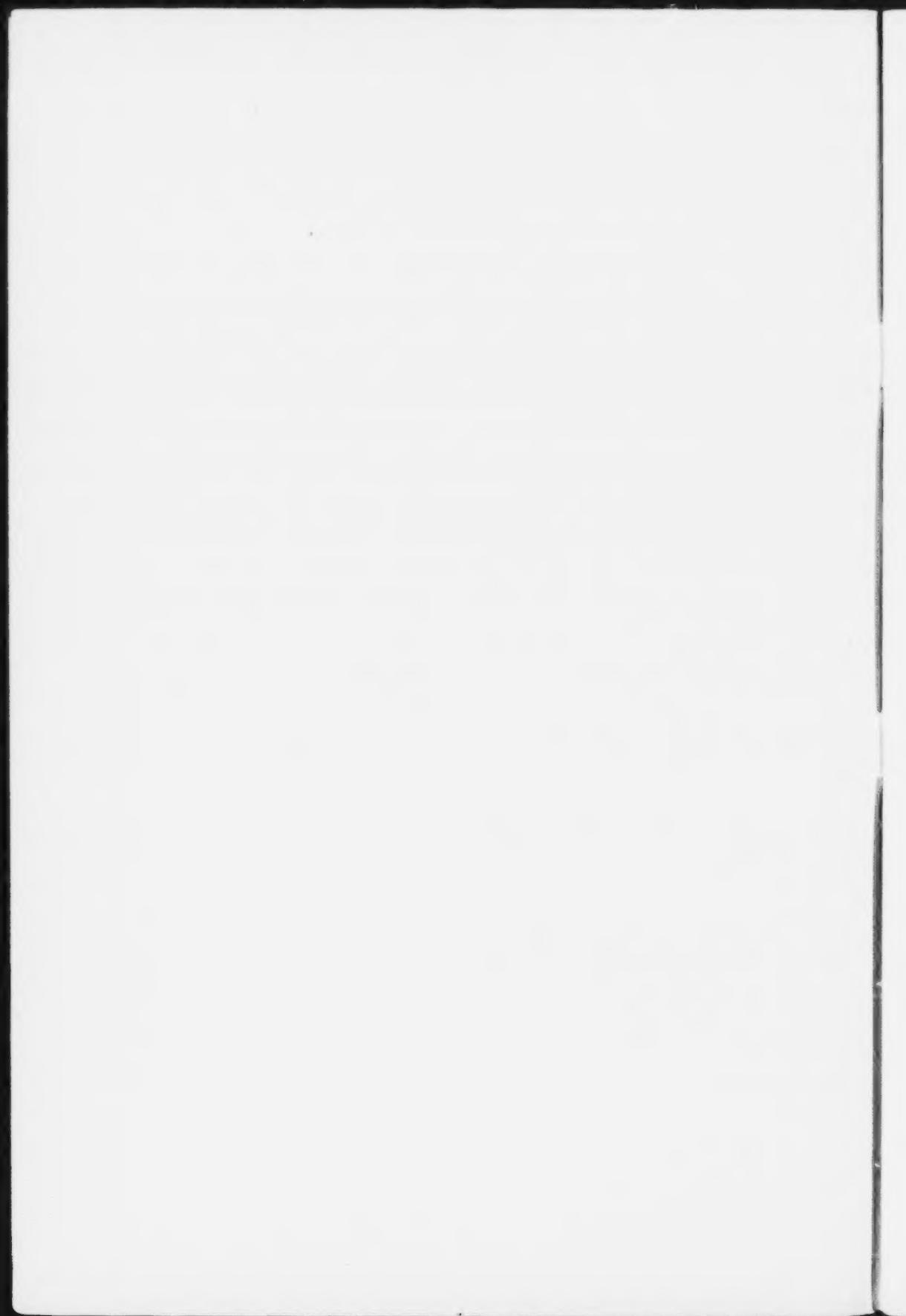


OTTAWA  
THOMAS MULVEY  
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY  
1921



## CONTENTS

	PAGE
<b>COAL</b>	
General Statement.....	1
Production by provinces, 1918 and 1919.....	2
Distribution of coal mined, 1918 and 1919.....	4
Monthly production of Coal by provinces, 1919.....	5
Annual production in Canada.....	6
Exports of coal.....	6
Imports of coal.....	6
Consumption of coal in Canada.....	7
Nova Scotia:—	
Production by companies, 1918 and 1919.....	13
Annual production in Nova Scotia.....	15
Coal trade by counties.....	16
Statistics of distribution of coal and labour statistics covering year ending September 30, 1919, from the Provincial reports.....	17
New Brunswick:—	
Production by collieries, 1918 and 1919.....	19
Annual production.....	20
Saskatchewan:—	
Production by collieries, 1918 and 1919.....	21
Annual production.....	22
Alberta:—	
Monthly production of coal in Alberta, 1919, by districts.....	25
Monthly production of coal in Alberta, 1918, by districts.....	26
Production by collieries, 1918 and 1919.....	27
Annual production in Alberta.....	29
British Columbia:—	
Production by districts and by collieries, 1918 and 1919.....	31
Annual production in British Columbia.....	34
Yukon:—	
Annual production.....	35
<b>COKE</b>	
Production by provinces, 1918 and 1919.....	36
Distribution of coke production.....	36
Annual production by provinces.....	38
Exports and imports.....	38
Coke oven by-products.....	39



## COAL.

The term "production" in the text and tables of this report is used to represent the tonnage of coal actually sold, or used, by the producer, as distinguished from the term "output," which is applied to the total coal extracted from the mine, and which includes, in some cases, coal lost or unsaleable or coal carried into stock on hand at the end of the year.

The production of coal during 1919 was 13,681,218 short tons (12,215,373 long tons), valued at \$54,413,349, or an average of \$3.98 per ton, as compared with a production in 1918 of 14,977,926 short tons (13,373,148 long tons), valued at \$55,192,896, or an average of \$3.68 per ton, a decrease in production in 1919 of 1,296,708 tons, or 8.6 per cent.

The average number of men employed during 1919 was 27,198, and total wages paid \$34,826,363, as compared with an average of 25,419 men employed in 1918, and \$32,899,501 paid in wages.

The values of the production in 1917, 1918 and 1919 have for all provinces been furnished directly by the operators. In 1916 and previous year, however, complete returns of values were not received from all operators, and the values placed upon the coal production in the provinces of Nova Scotia and British Columbia were partially estimated, or assumed.

In 1886 Canada's consumption of coal was 3,480,111 tons, of which 46 per cent was obtained from Canadian coal mines and 54 per cent imported chiefly from the United States. The annual consumption per head of population was about three-quarters of a ton.

In 1919 the consumption of coal was 28,863,017 tons, in 1918 it was 34,771,-832 tons, and in 1917, 33,123,785 tons. The percentage of the total derived from Canadian mines in 1919 was 40 and the percentage imported, 60. The consumption per capita during 1918 was over 4 tons, with a smaller rate of consumption in 1919. During the 33 years that have elapsed since 1886 Canada's coal consumption has increased practically tenfold in total tonnage and over 5 times in rate per head of population. But throughout this period the ratio of domestic to imported coal in the annual consumption has varied within quite narrow limits. The year of maximum proportion of contribution from Canadian sources was in 1903, when Canadian coal formed over 52 per cent of the total; the lowest proportion was in 1917, when only 37.2 per cent of the consumption originated in Canada. Throughout this period, too, exports of Canadian coal have not averaged more than 10 per cent of the quantity imported.

During the past three years the actual coal shortage in central Canada, due to conditions created by the war, and the threats of serious and dire consequences that might readily ensue, were that shortage to become acute, have served to draw public attention very strongly to a situation which the public records have shown to exist for many years. The fuel shortage has not only resulted in the imposition of abnormally high and possibly unjustifiable prices but has actually restricted in many instances industrial activity.

There is no actual shortage of coal resources in either the United States or in Canada, at least in so far as bituminous coal is concerned, so that the problem involved relates primarily to questions of production and distribution.

The Canadian coal-fields are situated in the extreme east and in the western provinces, while the great central provinces of Ontario and Quebec, the chief

centres of population, are more easily and, presumably, more economically supplied with coal from the nearer coal-fields of Pennsylvania and Ohio. Further, there is no anthracite coal in eastern Canada, which has grown dependent upon the anthracite output of Pennsylvania for that most desirable of the domestic fuels, since anthracite is not only the chief domestic or house fuel in Ontario, and Quebec, but is imported even into Nova Scotia coal districts, and has been largely used also in Manitoba and Saskatchewan.

In round numbers, Canada produced during 1919 about 13·5 million tons of coal, of which 2 million tons were exported, and imported 12·3 million tons of bituminous coal and 5 million tons of anthracite. During the previous year, 1918, we produced in round numbers 15 million tons, exported 1·8 million tons, and imported 16·8 million tons of bituminous coal, and 4·8 million tons of anthracite; thus, both production and imports were considerably reduced in 1919. Such a condition of international trade and dependence upon foreign supply attracted little attention during normal times.

Under the stress of war conditions when it became apparent that production would not meet demand action was taken both in the United States and in Canada to place the entire fuel situation under Government control. The regime of Canadian fuel control extended from June 11, 1917, to March 5, 1920.

In commenting on the policy of the United States with respect to the exportation of anthracite coal, the Fuel Controller, Mr. C. A. Magrath states:—<sup>1</sup>

"The Government (of the United States) has on different occasions appointed Committees to investigate the operations of these (anthracite mining) companies, and inquired into their methods of mining and their manner of conducting their business generally. But as far as the Fuel Controller is aware, nothing has ever developed in these investigations, which would indicate any desire on the part of the United States Administration to prohibit the exportation of anthracite. During the crisis just past, Canada was treated almost, if not absolutely, as an integral part of the union. Of course, it is within the realm of possibility that at some future date the United States might desire to retain their whole supplies of anthracite for the use of their own people. In such an eventuality, Canada would no doubt be given several years notice within which to arrange for replacing such supplies as are then being imported."

With respect to coal trade generally he states:—<sup>2</sup>

"The coal operators both in the East and the West should be encouraged as far as possible to make the most of the domestic markets and thereby decrease the amount of foreign coal imported."

"Under ideal conditions, however, there is a large market in Canada which Canadian producers have been unable to enter, owing to its distance from the coal fields, and this market, has, therefore, been supplied with foreign coal. To what extent this home market can in the future be served by the Canadian product is a problem that requires careful consideration."

The Fuel Controller's report constitutes a detailed and comprehensive analysis of the Canadian fuel situation.

### Production of Coal by Provinces, 1919

Province	Average No. of men Employed	Wages Paid	Production of Coal		Average Per Ton	Per cent of total Quantity
			Short tons	Value		
Nova Scotia.....	10,978	\$13,970,149	5,720,373	\$22,078,726	3·859	41·81
New Brunswick.....	565	503,268	179,108	794,761	4·422	1·31
Saskatchewan.....	487	467,436	380,169	820,522	2·158	2·78
Alberta.....	9,343	11,414,755	4,964,535	18,294,495	3·685	36·29
British Columbia.....	5,813	8,465,255	2,435,933	12,420,445	5·098	17·80
Yukon Territory.....	12	5,500	1,100	4,400	4·000	0·01
Total.....	27,198	\$34,826,363	13,681,218	\$54,413,349	3·977	100·00

<sup>1</sup>Final Report of the Fuel Controller, March, 1919—p. 41.

<sup>2</sup>Final Report of the Fuel Controller, March, 1919—p. 37.

### Production of Coal by Provinces, 1918

Province	Average No. of Men Employed	Wages Paid	Production of Coal			Per cent of Total Quantity
			Short Tons	Value	Average Per Ton	
Nova Scotia.....	10,361	\$ 13,060,322	5,813,562	\$ 21,095,470	3.63	38.85
New Brunswick.....	576	631,323	268,212	1,331,710	4.97	1.79
Saskatchewan.....	460	423,392	346,847	722,148	2.08	2.31
Alberta.....	9,032	11,382,406	5,972,816	20,537,287	3.44	39.88
British Columbia.....	4,982	7,384,358	2,568,589	11,494,681	4.47	17.15
Yukon Territory.....	8	8,700	2,900	11,600	4.00	0.02
Total.....	25,419	32,899,501	14,977,926	55,192,896	3.68	100.00

### Comparison of Production, 1917 with 1918, and 1918 with 1919

Province	(i) Increase, or (d) Decrease			
	Years 1917 and 1918		Years 1918 and 1919	
Nova Scotia.....	Short Tons	%	Short Tons	%
(d) 508,529	8.04	(d) 98,189	1.69	
(i) 79,117	41.84	(d) 89,104	33.22	
(d) 8,598	2.42	(i) 33,322	9.61	
(i) 1,236,448	26.11	(d) 1,068,281	16.88	
(i) 134,701	5.53	(d) 132,656	5.16	
(d) 1,972	40.48	(d) 1,800	62.07	
Total for Canada.....	(i) 931,167	6.63	(d) 1,296,708	8.66

The total production in 1919 included 111,324 tons of anthracite, or less than 1 per cent of the total; 10,642,902 tons of bituminous, or 77.8 per cent of the total, and 2,926,992 tons of lignite, or 21.4 per cent of the total.

The total production in 1918 included: 115,405 tons of anthracite, or less than 1 per cent of the total; 11,636,190 tons of bituminous, or 78 per cent of the total, and 3,226,331 tons of lignite, or over 21 per cent of the total.

The consumption of coal during the year included approximately 5,063,999 tons of anthracite, 20,872,026 tons of bituminous, and 2,926,992 tons of lignite.

The consumption of coal during 1918 included: 4,900,565 tons of anthracite, 26,644,936 tons of bituminous, and 3,226,331 tons of lignite.

The total output, production, and distribution of coal mined by provinces during 1919 and 1918 is shown in the following tables:—

### Production and Distribution of Coal Mined, by Provinces, 1919

In short tons.)

	Nova Scotia	New Brun- swick	Sas- katche- wan	Alberta	Yukon	British Colum- bia	Total
Sold in Canada.....	4,274,874	163,275	354,319	4,455,972	1,100	1,168,122	10,417,662
Sold for export to U.S.....	12,119	8,504	80	121,264		852,704	994,671
Sold for export to other countries.....	584,614						584,614
Total sales.....	4,871,607	171,779	354,399	4,577,236	1,100	2,020,826	11,996,947
Used by producers in making coke, steel, brick, etc.....	222,269		6,715	3,818		163,116	395,918
Used by producers for colliery consumption and by workmen.....	626,497	7,329	19,055	(a) 383,481		251,991	1,288,353
Total used.....	848,766	7,329	25,770	387,290		415,107	1,684,271
Production*.....	5,720,373	179,108	380,169	4,964,535	1,100	2,435,933	13,681,218
Difference in stocks.....	+41,574	-879	+45	-51,742		-23,335	-34,537
Losses due to breakage or other causes .....	42,727	209	3,903	91,475	100	295,560	433,974
Total Output.....	5,804,674	178,438	384,117	5,004,268	1,200	2,707,958	14,080,655

\*Production is obtained by adding coal sold and coal used.

(a) Includes coal used in manufacture of briquettes.

### Production and Distribution of Coal Mined, by Provinces, 1918

In short tons.)

	Nova Scotia	New Brun- swick	Sas- katche- wan	Alberta	Yukon	British Colum- bia	Total
Sold in Canada.....	4,208,825	197,203	324,661	5,362,469	2,900	1,113,120	11,209,184
Sold for export to U.S.....	47,103	61,840		132,765		842,086	1,354,694
Sold for export to other countries.....	212,882					65,427	278,309
Total sales.....	4,738,810	259,043	324,661	5,495,234	2,900	2,021,550	12,842,187
Used by producers in making coke, steel, brick, etc.....	277,981		2,702	108,804		309,857	699,104
Used by producers for colliery consumption and by workmen.....	801,871	9,169	19,484	368,718		237,393	1,436,635
Total used.....	1,079,752	9,169	22,186	477,582		547,050	2,135,739
Production*.....	5,818,562	268,212	346,847	5,972,816	2,900	2,568,589	14,977,926
Difference in stocks.....	-32,811	-2,481	+19	+10,333		+24,528	-412
Losses due to breakage or other causes .....	50,619	854	2,122	143,294		285,982	482,871
Total output.....	5,836,370	266,585	348,988	6,126,443	2,900	2,879,099	15,360,385

\*Production is obtained by adding coal sold and coal used.

### Distribution of Coal Mined during the Years 1914-15-16-17

In short tons.

	1914	1915	1916	1917
Sold in Canada.....	10,359,390	9,826,712	10,701,530	10,460,468
Sold for export to United States.....	1,181,536	1,330,718	1,451,075	1,301,881
Other countries.....	239,927	297,343	284,513	301,060
Total sales.....	11,780,853	11,454,773	12,437,118	12,072,409
Used by producers for the manufacture of coke.....	591,331	701,975	804,814	690,573
for colliery consumption, and by workmen.....	1,265,345	1,110,275	1,241,463	1,283,777
Production.....	13,637,529	13,267,023	14,483,395	14,046,759
Difference in stocks.....	-83,123	-99,294	-53,527	-7,760
Loss due to washing, breakage, or other causes.....	434,337	312,467	385,835	396,362
Total output.....	13,988,743	13,480,196	14,815,703	14,435,361

A record of the monthly production of coal by provinces is given in the following tables:—

In Nova Scotia, New Brunswick, British Columbia, and the Yukon this production is all bituminous coal; that of Saskatchewan is all lignite, while the production in Alberta includes the three classes, semi-anthracite, bituminous and lignite. A record of the monthly production of these three classes of coal in Alberta will be found in the section of this report dealing with that province.

### Monthly Production of Coal by Provinces, 1919

In short tons

Months	Nova Scotia	New Brun-s- wick	Saskat- chewan	Alberta			British Columbia	Total
	(b)	(b)	(c)	(a)	(b)	(c)	(d)	
January.....	501,536	21,788	28,034	12,730	282,908	204,410	240,200	1,291,606
February.....	405,112	16,262	23,937	11,645	265,431	147,545	185,072	1,055,004
March.....	420,460	14,529	26,164	13,414	278,377	210,994	212,646	1,176,584
April.....	454,398	13,339	16,001	13,679	214,830	96,615	185,444	994,306
May.....	451,127	12,011	18,586	76	169,549	95,439	182,661	929,451
June.....	433,890	13,627	20,337	39	4,328	37,794	127,710	637,725
July.....	467,042	14,249	20,971	750	7,226	55,826	154,859	721,283
August.....	484,437	15,691	26,900	2,611	33,006	117,630	189,660	849,335
September.....	489,369	13,821	35,327	12,278	208,657	286,584	213,780	1,260,156
October.....	569,790	17,376	48,153	14,673	279,096	390,475	252,794	1,572,357
November.....	508,957	16,026	55,367	13,907	284,578	433,345	256,413	1,568,593
December.....	534,255	10,389	60,390	15,522	278,402	470,166	255,664	1,624,818
Total.....	5,720,373	179,108	380,169	111,324	2,306,388	2,546,823	2,435,933	*13,681,218

\*Includes 1,100 tons produced in the Yukon District, during third quarter.

(a) Anthracite. (b) Bituminous. (c) Lignite.

Statistics of the annual production of coal from 1881 to date are given in the following table.

The total production of coal in Canada from 1785 to 1919 has been 297,158,478 tons; of this amount Nova Scotia is credited with 177,539,045 tons, or 59.7 per cent of the total; British Columbia, 62,900,741 tons, or 21.17 per cent; Alberta, 51,072,492 tons, or 17.20 per cent; Saskatchewan, 3,906,587 tons, or 1.31 per cent; New Brunswick, 1,603,448 tons, or 0.5 per cent, and the Yukon Territory, 136,165 tons, or 0.05 per cent.

### Annual Production of Coal

Year	Short tons	Value	Average per ton	Year	Short tons	Value	Average per ton
1785-1880.....	16,426,253	\$28,190,518	\$1.72	1901.....	6,486,325	\$12,699,243	\$ 1.96
1881.....	1,537,106	2,688,621	1.75	1902.....	7,466,681	15,210,877	2.04
1882.....	1,848,148	3,248,446	1.76	1903.....	7,960,364	15,942,833	2.00
1883.....	1,818,684	3,109,635	1.71	1904.....	8,254,595	16,592,231	2.01
1884.....	1,984,959	3,593,831	1.81	1905.....	8,667,948	17,520,263	2.02
1885.....	1,920,977	3,417,807	1.78	1906.....	9,762,601	19,732,019	2.02
1886.....	2,116,653	3,739,840	1.77	1907.....	10,511,426	24,381,842	2.32
1887.....	2,429,330	4,388,206	1.81	1908.....	10,886,311	25,194,573	2.31
1888.....	2,602,552	4,674,140	1.80	1909.....	10,501,475	24,781,236	2.36
1889.....	2,658,303	4,894,287	1.84	1910.....	12,909,152	30,909,779	2.39
1890.....	3,084,682	5,676,247	1.84	1911.....	11,323,388	26,407,646	2.34
1891.....	3,577,749	7,019,425	1.96	1912.....	14,512,829	36,019,044	2.48
1892.....	3,267,745	6,363,757	1.94	1913.....	15,012,178	37,334,040	2.49
1893.....	3,783,499	7,359,080	1.95	1914.....	13,037,529	33,471,801	2.45
1894.....	3,847,070	7,429,468	1.93	1915.....	13,267,023	32,111,182	2.42
1895.....	3,478,344	6,739,153	1.94	1916.....	14,483,395	38,817,481	2.68
1896.....	3,745,716	7,226,462	1.93	1917.....	14,046,759	43,199,631	3.08
1897.....	3,786,107	7,303,597	1.93	1918.....	14,977,926	55,192,896	3.68
1898.....	4,173,108	8,224,288	1.97	1919.....	13,081,218	54,413,349	3.97
1899.....	4,925,051	10,283,497	2.09				
1900.....	3,777,319	13,742,178	2.38	Grand total.....	297,158,478	709,305,549	2.39

### Exports of Canadian Coal.

Statistics of the exports of coal according to the Trade records are given in the following tables. The exports of Canadian coal in 1919 were 2,070,050 tons, valued at \$12,438,885, or an average of \$6.01 per ton, as compared with exports in 1918 of 1,817,195 tons, valued at \$9,405,423, or an average of \$5.18 per ton. Besides Canadian coal exported there is also a small export of coal not the produce of Canada.

### Annual Exports of Coal

In short tons

Calendar year	Produce of Canada	Not the produce of Canada	Calendar year	Produce of Canada	Not the produce of Canada
1908.....	1,729,833	102,071	1914.....	1,423,126	83,137
1909.....	1,588,099	161,098	1915.....	1,766,543	50,690
1910.....	2,377,049	159,859	1916.....	2,135,359	62,783
1911.....	1,500,639	133,943	1917.....	1,733,156	47,328
1912.....	2,127,133	46,706	1918.....	1,817,195	67,486
1913.....	1,562,020	66,566	1919.....	2,070,050	50,988

### Imports of Coal

The total imports of coal of all classes in 1919 "entered for consumption" as per the published Trade reports were 17,308,837 tons, valued at \$61,160,799, as compared with total imports in 1918 of 21,678,587 tons, valued at \$71,650,584.

Imports of coal into Canada are subdivided into four classes as follows: anthracite, egg, grate, stove, and nut; anthracite: rice, barley and buckwheat; bituminous, round and run-of-mine; and bituminous slack such as will pass through a three-quarter-inch screen.

The imports of anthracite in 1919 included: 4,758,419 tons of egg, grate, stove and nut, valued at \$30,948,590, or an average of \$6.50 per ton, and 194,256

tons of rice, barley and buckwheat, valued at \$647,104, or an average of \$3.33 per ton, as compared with total imports in 1918 of 4,785,160 tons, valued at \$26,007,888, or an average of \$5.44 per ton. The imports of bituminous coal of all classes in 1919 were: 12,356,162 tons, valued at \$29,565,105, as against imports in 1918 of 16,893,427 tons, valued at \$45,642,696. The decrease in bituminous imports in 1919 as compared with 1918 was thus 4,537,265 tons, or 27 per cent.

The bituminous imports in 1919 included: bituminous round, and run-of-mine, 10,127,965 tons, valued at \$24,750,717, or an average of \$2.41 per ton, and bituminous slack, 2,228,197 tons, valued at \$4,814,388, or an average of \$2.16 per ton. The value of the imports during 1918 of bituminous, round and run-of-mine coal averaged \$2.73 per ton, and of bituminous slack, \$2.58 per ton.

The record of the exports of bituminous coal to Canada, as published in the Reports of Trade and Navigation at Washington, differs in some years considerably from the Canadian record, in partial explanation of which it should be noted that the Canadian record represents coal "entered for home consumption." This entry may be deferred several months from the actual time of import, thus causing a difference in the monthly and yearly record.

Furthermore it is understood that the United States record includes a certain amount of coal used for bunkering lake steamers which would not be included as an import into Canada. The United States record shows exports of bituminous coal to Canada during the twelve months ending December 1919, of 11,950,277 short tons, as against 18,134,328 tons in 1918, 18,118,879 tons in 1917, 13,260,181 tons in 1916, 9,356,889 tons in 1915, 10,271,409 tons in 1914, and 15,115,733 tons in 1913.

#### Annual Imports of Coal, "Entered for Consumption"

Calendar year	Bituminous round and run of the mine (a)		Anthracite coal and anthracite dust (b)		Bituminous slack such as will pass through $\frac{1}{4}$ screen (c)	
	Short tons	Value	Short tons	Value	Short tons	Value
1907.....	6,370,152	\$13,232,445	3,141,873	\$14,506,129	1,139,256	\$1,121,949
1908.....	6,025,574	12,516,748	3,160,110	14,478,536	1,111,811	1,355,677
1909.....	5,625,063	11,455,818	3,017,844	13,906,152	1,230,017	1,489,889
1910.....	5,966,466	11,919,341	3,266,235	14,735,062	1,365,281	1,795,598
1911.....	8,905,815	18,407,603	4,020,577	18,794,192	1,632,500	2,090,796
1912.....	8,491,840	16,846,727	4,184,017	20,080,388	1,919,953	2,550,922
1913.....	10,743,473	21,756,658	4,642,057	22,034,839	2,816,423	4,157,622
1914.....	7,776,415	14,954,321	4,435,010	21,241,924	2,509,632	3,605,253
1915.....	6,106,794	7,564,369	4,072,192	18,753,980	2,286,916	2,027,256
1916.....	9,504,552	12,368,679	4,570,815	22,216,363	3,505,236	3,704,624
1917.....	12,407,486	33,712,894	5,320,198	28,109,586	3,129,776	8,739,877
1918.....	13,656,360	37,291,057	4,785,160	26,007,888	3,237,067	8,351,639
1919.....	10,127,965	24,750,717	4,952,675	31,595,694	2,228,197	4,814,388

a) Duty, 53 cents per ton. (b) Coal, anthracite and anthracite coal dust, duty free.  
Duty, 14 cents per ton

The following tables show the monthly imports of bituminous and anthracite coal since 1915.

The United States record of monthly exports to Canada is also included for comparison.

### Monthly Imports of Bituminous Coal into Canada,\* "Entered for Consumption"

In short tons

	1915	1916	1917	1918	1919	1920
January.....	547,772	1,124,918	1,031,719	1,134,493	1,458,240	790,424
February.....	653,016	942,811	760,545	1,460,391	1,064,710	671,212
March.....	547,756	918,206	1,114,958	1,175,076	922,608	1,180,670
April.....	417,133	727,467	1,331,449	986,052	562,853	753,557
May.....	181,908	894,505	893,055	1,541,537	960,491	885,125
June.....	601,569	1,239,882	1,260,652	1,442,412	733,550	924,136
July.....	752,229	1,066,718	1,581,361	1,670,806	1,283,902	1,103,819
August.....	846,162	1,188,822	1,890,923	1,670,397	1,291,041	1,665,171
September.....	680,151	1,287,554	1,567,773	1,604,802	1,203,977	
October.....	900,450	1,314,286	1,582,797	1,545,320	1,355,577	
November.....	967,791	1,156,239	1,273,498	1,439,535	892,248	
December.....	937,773	1,118,380	1,248,532	1,222,606	626,965	
Total.....	8,393,710	18,009,788	15,537,262	18,893,427	12,356,162	

\*Compiled from the Monthly Reports on Trade of Canada, Ottawa.

### Monthly Imports of Anthracite Coal into Canada,\* "Entered for Consumption"

In short tons

	1915	1916	1917	1918	1919	1920
January.....	270,396	295,578	300,836	279,688	399,676	335,908
February.....	213,797	349,347	277,179	246,960	447,866	296,736
March.....	175,813	381,042	436,567	424,030	170,754	139,334
April.....	361,195	194,402	318,782	302,291	209,958	260,122
May.....	477,522	372,264	317,390	465,561	461,701	329,684
June.....	415,344	513,528	551,107	401,450	431,874	473,829
July.....	311,380	513,858	559,991	382,207	534,488	361,507
August.....	346,689	429,699	665,071	461,651	502,550	591,942
September.....	398,272	433,203	533,203	479,284	563,306	
October.....	415,929	385,953	570,771	511,214	443,638	
November.....	370,384	383,103	413,200	364,605	379,430	
December.....	345,471	327,848	346,100	406,219	417,434	
Total.....	4,072,192	4,570,815	5,320,198	4,785,160	4,932,675	

\*Compiled from the Monthly Reports on Trade of Canada, Ottawa.

### Monthly Exports of Bituminous Coal from the United States to Canada\*

In short tons.

	1915	1916	1917	1918	1919	1920
January	396,715	600,616	654,350	510,912	561,023	512,858
February	338,905	605,684	646,008	647,855	500,000	606,222
March	306,203	611,640	884,498	951,196	395,229	716,391
April	426,970	740,865	1,022,171	1,273,972	562,172	940,460
May	660,253	1,407,229	1,569,297	1,978,799	1,118,589	802,427
June	978,028	1,476,453	2,017,989	2,019,816	1,602,430	1,337,019
July	1,138,383	1,457,326	1,585,972	2,098,600	1,498,681	1,886,889
August	1,060,717	1,708,697	2,715,625	2,194,099	1,498,208	2,091,047
September	1,058,176	1,519,550	1,739,580	2,038,673	1,581,406	1,965,514
October	1,224,880	1,196,122	2,416,800	1,859,456	1,622,438	
November	1,082,855	1,023,924	1,504,946	1,550,245	377,038	
December	704,804	852,076	1,391,640	1,011,595	233,062	
Total	9,356,889	13,260,182	18,118,879	18,134,328	11,950,277	

### Monthly Exports of Anthracite Coal from the United States to Canada\*

In short tons.

	1915	1916	1917	1918 (a)	1919 (a)	1920 (a)
January	211,435	288,521	327,838	270,239	412,990	342,797
February	198,202	324,354	285,135	254,597	241,940	305,052
March	140,128	337,814	408,337	445,041	131,942	470,044
April	498,532	237,291	656,731	381,764	319,413	389,361
May	461,976	495,609	480,633	476,123	446,732	310,461
June	394,502	567,764	677,350	424,203	531,233	573,395
July	299,837	432,375	437,493	443,002	546,171	738,186
August	328,516	430,379	760,253	457,177	505,545	622,302
September	310,400	391,873	501,899	495,840	548,557	364,262
October	380,417	374,565	535,715	510,753	485,791	497,718
November	312,583	349,053	329,259	482,013	359,205	
December	316,281	326,776	606,668	327,056	386,850	
Total	3,852,810	4,556,374	6,007,306	4,967,808	4,976,598	

\*Compiled from the Monthly Summary of Foreign Commerce of the United States, Washington, D.C.

(a) Total exports—Exports to Canada not separately stated, but will exceed 95 per cent of total exports.

### Consumption of Coal

The total consumption of coal in Canada estimated on the basis of production, imports and exports was in 1919, 28,863,017 tons, which included 11,611,168 tons of Canadian coal and 17,251,849 tons of imported coal.

Statistics of the annual consumption are given in the following tables.—

### Consumption of Coal, 1915-16-17-18-19

In short tons

	1915	1916	1917	1918	1919
Production	1,267,023	14,483,395	14,046,759	14,957,926	13,681,218
Exports of Canada	1,706,543	2,135,350	1,733,156	1,817,197	2,070,050
Home consumption of Canadian coal	11,500,480	12,348,030	12,313,603	14,460,734	11,611,168
Imports	12,465,902	17,580,603	20,857,460	21,678,587	17,408,857
Exports of foreign produced coal	76,430	62,783	47,328	67,486	56,988
Canadian consumption of imported coal	12,406,212	17,517,820	20,810,132	21,611,101	17,254,849
Total consumption of coal in Canada	23,906,692	29,865,856	33,123,735	34,771,832	28,863,017

### Annual Consumption of Coal

In short tons

Calendar Year	Canadian		Imported		Total	Per capita
	Short tons	%	Short tons	%		
1886	1,395,950	45.9	1,884,161	54.1	3,480,111	0.758
1887	1,848,365	45.7	2,192,260	54.3	4,040,625	0.871
1888	2,013,925	47.8	3,314,353	52.2	5,328,278	1.147
1889	1,992,988	44.4	2,490,931	55.6	4,483,919	0.946
1890	2,360,186	47.8	2,581,187	52.2	4,941,383	1.061
1891	2,606,490	46.7	2,980,222	53.3	5,586,712	1.153
1892	2,464,012	44.4	3,082,424	55.6	5,546,441	1.153
1893	2,823,187	47.6	3,110,462	52.4	5,933,649	1.198
1894	2,743,376	48.5	2,917,818	51.5	5,661,194	1.130
1895	2,467,109	57	2,933,752	54.3	5,400,861	1.066
1896	2,639,055	45.1	3,206,456	54.9	5,845,511	1.140
1897	2,789,977	47.3	3,124,485	52.7	5,924,462	1.143
1898	3,023,079	48.0	3,274,981	52.0	6,298,060	1.200
1899	3,631,882	47.0	4,092,361	53.0	7,724,243	1.454
1900	3,989,542	47.8	4,361,563	52.2	8,351,105	1.501
1901	4,942,664	50.5	4,810,213	49.5	9,722,877	1.810
1902	5,576,413	51.0	5,165,938	49.0	10,342,351	1.927
1903	6,005,735	52.2	5,491,870	47.8	11,507,605	2.055
1904	6,997,183	49.2	6,009,651	50.8	13,606,834	2.316
1905	7,032,661	48.9	7,343,880	51.1	14,370,541	2.392
1906	7,927,560	51.7	7,398,906	48.3	15,326,466	2.425
1907	8,617,352	45.0	10,549,503	55.0	19,166,855	2.947
1908	9,156,478	47.3	10,195,424	52.7	19,351,902	2.820
1909	8,913,376	47.9	9,711,826	52.1	18,625,202	2.682
1910	10,592,103	50.2	10,438,123	49.8	20,970,226	2.960
1911	9,822,749	40.5	14,424,949	59.5	24,247,698	3.384
1912	12,385,696	46.0	14,549,104	54.0	26,934,800	3.596
1913	13,450,158	42.6	18,132,387	57.4	31,582,545	4.071
1914	12,214,403	45.5	14,637,920	54.5	26,852,323	3.325
1915	11,500,480	48.1	12,406,212	51.9	23,906,692	3.015
1916	12,348,036	41.3	17,517,820	58.7	29,865,856	3.669
1917	12,313,603	37.2	20,810,132	62.8	33,123,735	3.962
1918	13,160,731	37.8	21,611,101	62.2	34,771,832	4.047
1919	11,611,168	40.2	17,251,849	59.8	28,863,017	

In connexion with the records of consumption it may be of interest to record the very large percentage of Canadian coal consumption used by railway locomotives. During the twelve months ending June 30, 1919, the tonnage of coal used by locomotives amounted to 9,141,023.

The quantity of coal consumed by railway locomotives in recent years, as compiled from "Railway Statistics," published by the Department of Railways and Canals, is as follows:

### Annual Consumption of Coal by Railway Locomotives

In short tons

Year ending June 30	Anthracite	Bituminous	Total
1911.....	6,444	6,789,903	6,776,347
1912.....	5,374	7,732,938	7,738,312
1913.....	4,682	9,040,963	9,045,625
1914.....	5,271	8,268,186	8,273,457
1915.....	3,691	6,673,345	6,677,536
1916.....	4,899	8,672,455	8,677,354
1917.....	4,900	9,783,524	9,788,424
1918.....	3,283	9,836,623	9,839,906
1919.....	4,430	9,136,593	9,141,023

### Nova Scotia

The production of coal in Nova Scotia in 1919 was 5,720,373 tons, as compared with a production in 1918 of 5,818,562 tons, showing a decrease of 98,189 tons, or 1.7 per cent.

The total sales of coal during 1919 were 4,871,607 tons, of which 4,274,874 tons were sold for consumption in Canada, 12,119 tons for export to the United States, 584,614 tons for export to Newfoundland and other countries.

The total quantity used by producers under colliery boilers, in coke ovens, and in steel plants was 848,766 tons, including 222,269 tons used in making coke, and for other commercial purposes, and 626,497 tons used in the operation of collieries, or by workmen.

A considerable tonnage of coal reported as sold for consumption in Canada is also used in the manufacture of coke, the total coal charged to coke ovens in the province during the year being 699,696 tons.

The Dominion Coal Company has for many years been the principal operator, the total production of this firm's collieries at Cape Breton and at Springhill being 3,837,787 tons, or over 67 per cent of the province's production, and equivalent to over 28 per cent of the total Canadian production. The Nova Scotia Steel and Coal Company produced 590,323 tons, the Acadia Coal Company 456,269 tons, the Inverness Railway and Coal Company 158,271 tons, the Maritime Coal, Railway and Power Company 185,296 tons, and the Intercolonial Coal Mining Company 207,650 tons.

Nova Scotia was the first province in Canada in which coal was mined and up to date has produced more coal than all the other provinces combined. The annual production reached a maximum in 1913, with a total of 7,980,073 tons. During the past three years, however, the production has fallen off nearly 30 per cent. As the war proceeded the loss of experienced miners through enlistment became heavy. The output was reduced and increasing demands for coal for local consumption and for bunkering overseas shipping soon absorbed the available coal that formerly went to the Montreal market.

For a number of years Nova Scotia mines, chiefly those of Cape Breton, had been shipping from 2,000,000 to 2,500,000 tons of coal to Montreal, and other Quebec markets, via the St. Lawrence. During the twelve months ending September, 1919, 386,022 tons of Nova Scotia coal were marketed in Quebec province, as against 150,582 tons in 1918; 339,374 tons in 1917; 1,114,337 tons in 1916, and 2,048,222 tons in 1915.

The quantity of coal marketed within the province increased from 2,467,000 tons in 1914 to 3,226,000 tons in 1917, but has fallen again to 2,814,000 tons in 1919.

The present distribution also shows a larger quantity of coal marketed in New Brunswick and in Newfoundland than before the war. The exports to the United States, which reached 596,000 tons in 1915, have fallen to 85,000 tons in 1919, whilst during the latter year 72,000 tons were shipped to European markets.

## Coal Production by Companies, in Nova Scotia, 1919

In short tons.

	Total Sales for Coke	U.S.O. Colliery Consump- tion	Production:	Losses: Steel kg.	(Net) Total
	Total Sales for Coke	U.S.O. Colliery Consump- tion	Production:	Losses: Steel kg.	(Net) Total
<i>Inverness County—</i>					
Inverness Ry. and Coal Co.	122,104	28,818	15,271	4,548	60,155
Port Hood Collieries, Ltd.	31,463	1,193	8,940	4,340	1,174
St. Rose Mine (G. W. Evans)	204	97	92	—	74,679
Chimney Corner Mine (S. J. Doucet)	736	—	—	—	74,679
Anglo Coal Co., Ltd.	22,919	—	401	23,780	—
	<b>177,666</b>	<b>31,818</b>	<b>31,511</b>	<b>2,049</b>	<b>74,679</b>
<i>Cape Breton County—</i>					
Indian Cove Coal Co., Ltd.	18,445	872	3,660	2,977	2,977
Dominion Coal Co., Ltd.	3,018,900	26,179	291,824	3,000,390	19,181
Nova Scotia Steel and Coal Co., Ltd.	341,196	103,306	32,774	21,047	3,458,154
Bras d'Or Coal Co., Ltd.	45,332	—	497	701	61,766
	<b>3,423,983</b>	<b>219,485</b>	<b>326,467</b>	<b>4,060,681</b>	<b>39,947</b>
<i>Pictou County—</i>					
Acadia Coal Co., Ltd.	413,500	—	24,270	18,199	243
Milford Mining Co.	20,642	2,772	2,314	—	4,50,305
Greenwood Coal Co., Ltd.	42,737	2,784	2,985	46,346	23,414
Intervariant Coal Mining Co., Ltd.	174,686	22,697	7,494	84	46,405
Lanark Engineering Co., Ltd.	18,782	—	1,663	20,650	20,650
	<b>670,627</b>	<b>2,784</b>	<b>54,367</b>	<b>26,679</b>	<b>74,408</b>
<i>Yarmouth County—</i>					
Central Coal Co.	1,857	210	1,080	14	31
Maritime Coal, Ry. and Power Co., Ltd.	176,135	4,555	1,854	4,270	2,104
Twin Seam Coal Co., Ltd.	6,031	240	210	1,171	16,947
Dominion Coal Co., Ltd. (Springhill)	361,966	9,212	12,290	4,174	6,471
Minifie Coal Co., Ltd.	36,914	1,600	1,200	1,048	440,654
The Brummerson Coal Co., Ltd.	8,025	300	145	—	8,445
The Sterling Coal Co.	4,834	212	125	203	7,143
Fundy Mining Co.	651	—	—	661	—
Royal Coal Co., Ltd.	405	—	105	—	405
Export Coal Co., Ltd.	493	212	15	270	212
	<b>369,331</b>	<b>—</b>	<b>70,541</b>	<b>17,444</b>	<b>6,782</b>
Total.....	<b>4,871,607</b>	<b>222,269</b>	<b>462,906</b>	<b>14,704</b>	<b>2,199</b>

<sup>1</sup>Includes also coal used by producers for steel making and other purposes.  
<sup>2</sup>Production is obtained by adding sales and coal used.  
<sup>3</sup>Complete records of losses are not furnished by all producers.

## Coal Production by Companies, in Nova Scotia, 1918

In short tons

	Total		Production		Sales	
	Total Sales	Long Tons	Calculated Consumption	Workings	Short Tons	Long Tons
<i>Inverness County</i>						
Inverness Ry. and Coal Co.	185,442	36,713	7,614	2,291	12,729	3,084
Port Hood Collieries, Ltd.	4,031	4,424	4,067	4	4,086	4
St. Rose Mine Co., W. Evans	216	405	20	443	303	444
Chumney Corner Mine, S. J. Dooley	500	—	500	—	500	500
	189,792	37,584	7,612	2,291	12,729	3,084
<i>Colchester County</i>						
Indian River Coal Co., Ltd.	12,100	71	83	12,274	11,964	11,964
Dominion Coal Co., Ltd.	278,578	418,908	66,136	10,025	10,025	10,025
Nova Scotia Steel and Coal Co., Ltd.	95,586	275,336	12,067	5,220	5,220	5,220
Broadfoot Coal Co., Ltd.	54,424	1	107	8,975	8,975	8,975
	440,084	723,346	48,301	19,221	19,221	19,221
<i>Pictou County</i>						
Acadia Coal Co., Ltd.	348,562	50,030	14,821	118,114	118,114	118,114
Melford Mining Co., Ltd.	17,055	—	4,000	4,396	4,396	4,396
Circewood Coal Co., Ltd.	52,602	—	2,664	50,517	50,517	50,517
Intercolden Coal Mining Co., Ltd.	163,194	2,545	2,439	19,982	19,982	19,982
	503,700	2,745	63,036	24,118	24,118	24,118
<i>Yarmouth County</i>						
Central Coal Co.	1,161	181	—	1,158	1,158	1,158
Maritime Coal Ry. and Power Co., Ltd.	170,067	28,300	4,822	204,074	204,074	204,074
Two Seals Coal Co., Ltd.	6,021	—	—	6,021	6,021	6,021
Dominion Coal Co., Ltd. Springhill	339,508	65,370	11,200	42,128	42,128	42,128
Mindie Coal Co., Ltd.	21,109	4,700	—	20,965	20,965	20,965
Strattonia Coal Mine, A. W. Peacock	19,153	1,150	3,021	18,905	18,905	18,905
The Sterling Coal Co.	17,495	4,253	—	18,234	18,234	18,234
Fundy Mining Co.	6,443	941	—	7,096	7,096	7,096
Royal Coal Co., Ltd.	3,115	—	—	2,018	2,018	2,018
Athletic Coal Co., Ltd.	1,013	—	—	1,013	1,013	1,013
Tenix Coal Co., Ltd.	17,489	1,790	1,210	19,400	19,400	19,400
	684,854	104,450	19,375	72,8648	70,142	70,142
	4,738,810	217,881	653,430	148,441	5,818,502	4,903,315
	<b>Total</b>				<b>19,204</b>	<b>19,204</b>

<sup>a</sup>Includes also coal used by producer for general mining and other purposes  
losses not furnished by all producers

<sup>b</sup>Production is calculated by subtracting sales and losses

## Output, Sales, Colliery Consumption, and Production of Coal in Nova Scotia

Calendar Year	Output	Sales or used	Colliery consumption	Production*	Price per ton (\$) 1910 basis	Value of production (\$)	
						Lbs. of 2,000 pounds	\$
1855 to 1873							
1874	977,146	839,022	133,912	972,054	1.75	1,593,860	
1875	874,905	691,610	11,403	910,613	1.75	1,520,249	
1876	794,804	710,412	157,446	831,755	1.75	1,454,084	
1877	848,96	709,513	110,702	880,115	1.75	1,308,691	
1878	863,025	776,332	59,262	873,994	1.75	1,375,339	
1879	882,303	771,259	94,964	806,220	1.75	1,353,469	
1880	1,150,035	1,000,218	18,151	1,177,009	1.75	1,849,108	
1881	1,159,193	1,159,216	12,834	1,280,050	1.75	2,000,679	
1882	1,529,708	1,400,200	14,747	1,524,947	1.75	2,392,730	
1883	1,503,350	1,453,226	125,383	1,558,609	1.75	2,406,576	
1884	1,556,011	1,413,048	130,781	1,543,829	1.75	2,412,233	
1885	1,514,170	1,405,051	142,939	1,547,990	1.75	2,415,745	
1886	1,682,924	1,538,500	150,512	1,698,018	1.75	2,683,152	
1887	1,871,330	1,702,046	156,550	1,858,596	1.75	2,904,057	
1888	1,989,203	1,765,895	176,336	1,942,231	1.75	3,034,735	
1889	1,967,082	1,741,720	177,107	1,918,827	1.75	2,908,107	
1890	2,229,081	2,000,444	180,589	2,181,033	1.75	3,407,864	
1891	2,290,158	2,071,938	195,981	2,207,919	1.75	3,543,624	
1892	2,175,913	1,963,286	196,103	2,159,389	1.75	3,374,046	
1893	2,480,807	2,214,348	230,076	2,344,924	1.75	3,820,194	
1894	2,520,707	2,308,231	219,751	2,527,982	1.75	3,949,970	
1895	2,539,727	2,008,270	246,875	2,225,145	1.75	3,470,790	
1896	2,537,706	2,202,447	216,132	2,308,579	1.75	3,919,655	
1897	2,020,835	1,290,032	203,522	2,493,554	1.75	3,896,179	
1898	2,584,175	1,375,661	18,539	2,563,180	1.75	4,004,970	
1899	3,209,296	350,067	198,55	3,148,822	2.00	5,322,898	
1900	3,694,646	1,358,585	94,051	3,623,536	2.50	8,088,250	
1901	4,279,557	3,820,462	56,606	4,158,088	1.75	6,496,982	
1902	3,292,598	4,746,934	14,102	5,161,416	2.00	9,216,636	
1903	5,841,429	5,113,007	539,731	5,673,338	2.00	10,095,246	
1904	5,747,823	5,097,949	498,292	5,506,241	2.00	9,903,288	
1905	5,821,622	5,167,476	479,107	5,646,583	2.06	10,083,184	
1906	6,546,191	5,704,307	516,198	6,220,505	2.00	11,108,044	
1907	6,468,563	5,864,400	480,727	6,454,133	2.25	12,764,999	
1908	6,805,489	5,851,781	645,600	6,652,599	2.25	13,564,476	
1909	5,718,871	5,066,912	585,177	5,652,089	2.25	11,354,643	
1910	6,513,162	5,724,681	607,461	6,431,142	2.25	12,919,705	
1911	7,125,551	6,356,080	646,340	7,004,420	2.25	14,071,379	
1912	7,834,724	7,051,573	731,315	7,783,888	2.50	17,374,730	
1913	8,145,104	7,255,006	723,067	7,980,073	2.50	17,812,663	
1914	7,448,042	6,637,110	733,814	7,470,924	2.50	16,452,955	
1915	7,513,739	6,818,773	644,597	7,463,370	2.50	16,659,308	
1916	6,911,905	6,216,439	675,701	6,912,140	3.00	18,514,667	
1917	6,345,335	5,509,489	727,602	6,327,099	3.44	19,410,737	
1918	5,836,370	5,016,691	801,871	5,818,592	4.06	21,095,470	
1919	5,804,674	5,093,876	626,497	5,720,373	4.32	22,078,726	
Total				177,539,045		304,047,589	

\* This production is obtained by adding sales and colliery consumption.

## Coal Trade by Counties in Nova Scotia, Calendar Years since 1906

In short tons

Calendar Year	Number and Weight		Pictou		Cape Breton		Other Counties		Total
	Raise	Sold*	Raise	Sold*	Raise	Sold*	Raise	Sold*	
1906	630,734	561,308	709,496	657,110	4,804,407	4,221,293	312,564	259,396	6,546,191
1907	584,147	445,289	840,663	729,043	4,698,147	4,346,180	395,580	343,865	5,864,406
1908	662,157	530,148	849,802	678,025	4,810,623	4,207,346	452,877	375,742	5,561,704
1909	494,910	408,574	748,360	589,743	4,051,353	3,723,135	398,759	340,663	5,006,912
1910	550,303	488,706	744,946	588,678	5,065,800	4,571,547	414,153	374,950	5,823,484
1911	528,396	426,125	833,956	601,852	5,405,555	4,917,902	347,944	312,204	6,358,080
1912	595,138	516,914	765,628	641,890	6,109,296	5,530,706	312,836	284,780	7,894,724
1913	532,845	617,544	817,177	634,630	6,113,275	5,749,915	329,105	298,507	7,257,006
1914	702,496	512,177	681,536	571,068	5,767,386	5,266,733	296,624	226,549	7,446,042
1915	736,794	620,667	581,226	508,145	5,920,670	5,480,292	275,049	203,669	6,637,110
1916	685,517	578,944	612,641	528,180	5,315,756	4,874,793	296,111	254,252	6,911,995
1917	711,104	603,635	725,992	635,925	4,980,630	4,176,581	257,729	182,752	6,345,335
1918	694,834	584,721	722,139	506,045	4,294,882	3,716,020	204,678	181,792	5,836,370
1919	688,381	599,351	754,408	673,411	4,143,395	3,643,468	216,790	177,666	5,093,876

\* Sales include coal used for making coke and steel.

## Distribution of Coal Sold by Nova Scotia Producers

Fiscal Year ending September 30

Markets	1914			1915			1916			1917			1918			1919		
	Short tons	Per cent																
Nova Scotia																		
Transported by land	2,090,186	30.40	1,956,943	30.69	2,673,866	40.23	2,707,718	47.01	2,570,188	49.91	2,299,147	46.03						
sea	368,551	5.34	382,340	6.08	491,591	7.40	518,763	9.01	510,846	9.89	515,097	10.31						
Total Nova Scotia	2,467,737	35.74	2,339,283	36.73	3,165,457	47.63	3,226,482	56.02	3,300,034	59.80	2,814,244	56.34						
New Brunswick																		
Prime Eastward Island	762,150	11.04	675,693	10.48	865,238	13.02	994,741	17.27	988,521	19.13	846,532	16.95						
Quebec	107,275	1.55	92,171	1.45	92,876	1.40	115,548	2.01	87,431	1.69	87,865	1.76						
Newfoundland	2,067,572	38.63	2,048,422	31.76	1,114,337	16.77	339,454	5.89	150,583	2.92	356,022	7.73						
United States	252,060	3.66	235,755	3.63	281,259	4.23	264,914	4.60	245,487	4.75	304,897	6.10						
St. Pierre	336,741	4.88	596,006	9.25	309,772	7.67	583,152	6.65	301,370	5.83	84,910	1.70						
Bunker coal	9,673	0.14	11,729	0.18	6,485	0.10	6,768	0.11	6,043	0.12	16,117	0.32						
For mine chartered boats	278,640	4.04	383,573	5.94	604,601	9.10	428,929	7.45	289,351	5.00	375,642	7.33						
Loss at sea	20,787	0.30	18,908	0.29	..	..	..	..	..	..	..	..						
Other countries	1,312	0.02	9,427	0.15	5,391	0.08	8,283	0.16	6,429	0.13	72,148	1.44						
Total	6,904,352	100.00	6,448,856	100.00	6,645,756	100.00	5,780,243	100.00	5,167,103	100.00	4,994,806	100.00						

**Number and Classes of Workmen in the Coal Mines of Nova Scotia. Year ended September 30, 1919**

Company	Average Daily Worked per Month			Average Daily Workers			Transportation, Horses and Wagons			Total Workmen			Total Horses		
	Average days per month	Surface	Under-ground	Cutting Coal	Total River Men	Total Deliveries Days	Pike and Wagons	Trucks	Trucks	Horses	Trucks	Horses	Trucks	Horses	
Bethelton Coal Co.	23.9	869	3,235	811	4,915	1,409,620	1,772	6,087	480						
Nova Scotia Steel and Coal Co.	22	808	492	1,607	424,250	107	1,742	121							
Bras d'Or Coal Company	18	19	52	90	19,450	2	92	1							
Collyer Coal Company	10	8	6	41	9,340	3	44	6							
Acme Coal Co.	10	16	4	16	108	18,612	4	30							
Inverness Railway and Coal Company	10	115	260	180	565	118,510	100	715	12						
Port Hood Coal Mines	10	19	30	23	72	17,300	8	80	3						
S. J. Bonar Company, Ltd.	13.5	4	2	3	9	1,450	1	10	1						
J. T. Thorpe Brothers Ltd.	10	1	2	2	5	600	5	5							
Acadie Coal Company	10	240	408	306	1,154	290,810	61	1,215	72						
Intercolonial Coal Mining Co., Ltd.	10	117	161	159	437	131,100	36	472	74						
Intercolonial Coal Company	19.5	28	26	66	120	28,184	4	14							
Alfred der Suerbaert, Mifflin	4	8	34	34	34	10,450	2	41							
Canalfield Railway and Coal Co.	24.3	213	344	237	704	231,530	13	807	49						
Maritime Coal, Railway and Flower Co.	25.3	91	234	145	470	132,032	10	480	6						
Mari po Coal Co.	15.2	16	65	35	116	21,158	14	130	1						
Fair Seaford Coal Co.	9	5	8	6	19	4,560	6	22							
Lakeview Coal Co.	6.5	5	4	6	15	1,170	1	17							
Lower Gen. Co. Co.	18	10	55	55	45	9,720	1	46							
Stellarton Coal Co.	12.5	12	13	24	49	7,350	1	50	1						
Lowman Coal Co.	6	40	9	20	69	4,965	6	75							
Central Coal Co. (Sutherland & Swanson, Trustees)	2.5	2	1	8	11	3,005	1	12							
Final Coal Co. (Sutherland & Swanson, Trustees)	4.6	4	5	7	16	885	2	18							
	2,140	5,691	2,874	11,714	2,806,571	2,211	12,925	816							

### New Brunswick

The production of coal in New Brunswick in 1919 was 179,108 tons, as against 268,212 tons in 1918, showing a decrease of 89,104 tons, or 33 per cent.

Through the courtesy of the operators the department is permitted to publish a record of the production from individual properties, as shown in the accompanying tables:

#### Production of Coal in New Brunswick, 1919

In short tons.)

	Time in operation	Total sales	*Total for colliery use	Total production
Avon Coal Co., Ltd., Newcastle Creek.....	10 mos.	16,143	1,143	17,286
Coakley, Jnr., Minto.....	5 mos.	612	.....	612
Grand Lake Coal Co., Ltd., Minto.....	26 days.	744	.....	744
King, G. H., Chipman.....		9,688	263	9,951
Minto Coal Co., Ltd., Minto.....	290 days.	91,299	2,518	93,817
Northfield Coal Co., Ltd., Minto.....	4 mos.	1,261	.....	1,261
Ridge Coal Co., Ltd., Newcastle Bridge.....	304 days.	5,392	408	5,800
Rothwell Coal Co., Ltd., Rothwell.....	8 mos.	6,255	682	6,937
Sheffield Coal Co., Ltd., Minto.....		15,266	1,550	16,816
Taylor, A. D., Minto.....	233 days.	9,453	560	10,013
Welton Harvey, Minto.....	12 mos.	14,001	.....	14,001
All others.....		1,665	205	1,870
Total New Brunswick.....		171,779	7,329	179,108

Includes consumption under boilers, etc., and coal used by workmen.

#### Production of Coal in New Brunswick, 1918

In short tons.)

	Days in operation	Total sales	*Total for colliery use	Total production
Avon Coal Co., Ltd., Newcastle Creek.....	299	13,635	1,589	15,224
Coakley, Jnr., Minto.....	10 mos.	1,720	.....	1,720
Dean Coal Co., Adamsville.....	4 mos.	477	72	549
Grand Lake Coal Co., Ltd., Minto.....	289	12,991	200	13,191
Kelley Coal Co., Ltd., Minto.....	156	1,302	105	1,407
King, G. H., Chipman.....	12 mos.	15,994	223	16,217
Minto Coal Co., Ltd., Minto.....	310	124,531	2,615	127,146
Northfield Coal Co., Ltd., Minto.....		3,886	80	3,966
Ridge Coal Co., Ltd., Newcastle Bridge.....	12 mos.	1,857	655	2,512
Robinson, A. G., Salmon Harbour.....	2 mos.	162	28	190
Rothwell Coal Co., Ltd., Rothwell.....		305	29,997	32,674
Sheffield Coal Co., Ltd., Minto.....	147	6,534	694	7,228
Smith & Merrithew, Ltd., Minto.....	10 mos.	4,457	.....	4,457
Welton Harvey, Minto.....	12 mos.	39,922	.....	39,922
All others.....		1,578	234	1,812
Total New Brunswick.....		259,043	9,169	268,212

\*Includes consumption under boilers, etc., and coal used by workmen.

### Annual Production of Coal in New Brunswick

Calendar Year	Short tons	Value	Average per ton	Calendar Year	Short tons	Value	Average per ton
1887.....	10,040	23,607	2 35	1904.....	9,112	18,224	2 00
1888.....	5,730	11,050	1 93	1905.....	29,400	58,800	2 00
1889.....	5,673	11,733	2 07	1906.....	34,076	68,152	2 00
1890.....	7,110	13,850	1 95	1907.....	34,584	77,814	2 25
1891.....	5,422	11,030	2 03	1908.....	60,000	135,000	2 25
1892.....	6,768	9,375	1 39	1909.....	49,029	98,496	2 25
1893.....	6,200	9,837	1 59	1910.....	55,455	110,910	2 00
1894.....	6,469	10,264	1 58	1911.....	55,781	111,562	2 00
1895.....	9,500	14,250	1 50	1912.....	44,780	89,560	2 00
1896.....	7,500	11,250	1 50	1913.....	70,311	166,637	2 37
1897.....	6,000	9,000	1 50	1914.....	98,049	241,075	2 46
1898.....	6,160	9,240	1 50	1915.....	127,391	309,612	2 43
1899.....	10,528	15,792	1 50	1916.....	143,540	36,016	2 69
1900.....	10,000	15,000	1 50	1917.....	189,095	708,010	3 74
1901.....	17,630	51,857	2 94	1918.....	268,212	1,331,710	4 97
1902.....	18,795	39,680	2 11	1919.....	179,108	794,761	4 42
1903.....	16,000	40,000	2 50				
				Total.....	1,603,448	5,013,154	

The coal-producing areas include the Grand Lake coal-fields in Queen's and Sunbury counties, and the Beersville area in Kent county. In the Grand Lake area the coal seams, which vary in thickness from 20 to 32 inches, are found at a depth of from 30 to 60 feet below the surface.

### Saskatchewan

The coal deposits of Saskatchewan furnish coal of the lignite variety only, and the production in 1919 from 64 collieries was 380,169 tons, valued at \$820,522, as compared with 346,847 tons, valued at \$722,148 in 1918, an increase of 33,322 tons, or 9·6 per cent.

The 1919 production included 354,399 tons of coal sold and 25,770 tons used by producers for colliery consumption, by workmen, or in brick-making.

The output of coal comes chiefly from the vicinity of Estevan, located on the Souris river, near the southeastern corner of the province. Coal deposits exist for 75 or 100 miles in a northwest-southeast direction along the Souris river, on Big Muddy creek, draining Willowbunch lake and on the south branch of the Saskatchewan river, about 100 miles southwest of Saskatoon.

The annual production and the production by the principal operators in 1919 and 1918 is shown in the following tables:-

### Production of Coal in Saskatchewan in 1919, by Principal Operators

(In short tons)

Name of Company	Time in operation	Total sales	Total for colliery use*	Total production
Anderson, Niels, Estevan.....	138 days	1,615		1,615
Bienfait Commercial Co., Ltd., Bienfait.....	12 mos.	40,079	1,661	41,740
Bienfait Mine (The) Bienfait.....	12 mos.	65,992	2,487	68,479
Crescent Collieries, Ltd.....	7 mos.	11,944	630	12,574
Eidsness Bros., Gladmar.....		1,812		1,812
Estevan Coal and Brick Co., Ltd., Estevan.....	283 days	10,450	152	10,602
Heuvel, Henry V., Hart.....	5 mos.	1,168		1,168
Inter-Provincial Coal Co., Ltd., Roche Percée.....	7 mos.	2,315	36	2,351
Dempsey, Wm., Shaunavon.....	2 mos.	3,180		3,180
McNeil & Brooks, Estevan.....	12 mos.	1,456		1,456
Manitoba and Saskatchewan Coal Co., Ltd., Estevan.....	201 days	61,183	5,959	67,142
Nicholson, H., Estevan.....	259 days	7,000	124	7,124
Parkinson, Geo., Estevan.....	12 mos.	4,419		4,419
Salaba, Jas.....		1,947	30	1,977
Shand Coal, Brick and Power Co., Ltd., Shand.....	12 mos.	19,455	2,340	21,795
Siddall, Edwin.....	10 mos.	1,016		1,016
Western Dominion Collieries, Ltd., Taylortown.....	213 days	109,910	5,577	115,487
Hamilton, H. A.....	76 days	1,340		1,340
All other operators (46).....		8,118	6,774	14,892
<b>Total Saskatchewan.....</b>		<b>354,399</b>	<b>25,770</b>	<b>380,169</b>

\*Includes consumption under boilers, etc., and coal used by workmen.

### Production of Coal in Saskatchewan in 1918, by Principal Operators

(In short tons.)

Name of Operator	Days in operation	Total sales	Total for colliery use*	Total production
Anderson, Niels, Estevan.....	116	1,041		1,041
Bienfait Commercial Co., Ltd., Bienfait.....	282	18,421	840	19,261
Bienfait Mine (The) Bienfait.....	244	63,473	2,449	65,922
Eidsness Bros., Gladmar.....	172	1,285		1,285
Estevan Coal and Brick Co., Ltd., Estevan.....	281	7,040	3,914	10,954
Heuvel, Henry V., Hart.....	12 mos.	1,521		1,521
Inter-Provincial Coal Co., Ltd., Roche Percée.....	297	4,407	80	4,487
Lilja & Dempsey, Shaunavon.....	257	2,261		2,261
McNeil & Brooks, Estevan.....		1,174	75	1,249
Manitoba & Saskatchewan Coal Co., Ltd., Estevan.....	227	69,628	5,741	75,369
Nicholson, H., Estevan.....	213	2,282		2,282
Parkinson, Geo., Estevan.....	12 mos.	3,660		3,660
Saskatchewan Colliery Co., Ltd., Roche Percée.....	6 mos.	2,500	100	2,600
Saskatchewan Coal, Brick & Power Co., Ltd., Shand.....	266	30,409	2,200	32,609
Western Dominion Collieries, Ltd., Taylortown.....	235	98,448	6,386	104,834
Wilson, Alex., Taylortown.....	3 mos.	1,364	25	1,389
All other operators (51).....		15,747	376	16,123
<b>Total Saskatchewan.....</b>		<b>324,661</b>	<b>22,188</b>	<b>346,847</b>

\*Includes consumption under boilers, etc., and coal used by workmen

### Annual Production of Coal in Saskatchewan

Calendar Year	Short tons	Value	Average per ton	Calendar Year	Short tons	Value	Average per ton
			\$   cts				\$   cts
1887.....	(a) 400	800	2 00	1906.....	108,398	164,146	1 51
1890.....	200	200	1 00	1907.....	151,232	252,437	1 67
1891.....				1908.....	150,556	253,790	1 69
1892.....	5,400	9,325	1 73	1909.....	192,125	296,339	1 54
1893.....	8,325	12,485	1 50	1910.....	181,156	293,923	1 62
1894.....	(b) 15,051	15,153	1 01	1911.....	206,779	347,248	1 68
1895.....	15,769	31,538	2 00	1912.....	225,342	368,135	1 63
1896.....	16,708	25,059	1 50	1913.....	212,897	358,192	1 68
1897.....	25,000	37,500	1 50	1914.....	232,299	374,245	1 61
1898.....	25,000	37,500	1 50	1915.....	240,197	365,246	1 52
1899.....	25,000	37,500	1 50	1916.....	281,300	441,836	1 57
1900.....	40,500	60,750	1 50	1917.....	355,445	662,451	1 86
1901.....	45,000	72,000	1 60	1918.....	346,847	722,148	2 08
1902.....	70,400	112,640	1 52	1919.....	380,169	820,522	2 158
1903.....	116,703	169,618	1 45				
1904.....	124,885	187,021	1 50	Total.....	3,906,587	6,682,081	
1905.....	107,596	152,334	1 42				

<sup>a</sup> From Turtle Mountain district, Manitoba.

<sup>b</sup> Including a small quantity from the Turtle Mountain district, Manitoba.

**Lignite Utilization Board of Canada.**—During 1919 the Board continued the experimental investigations on the carbonizing and briquetting of Saskatchewan lignites and before the end of the year were sufficiently satisfied with the commercial feasibility of the project to prepare designs for a commercial plant and to arrange for the placing of contracts for a part of the equipment.

On September 1, 1920, the Board issued a special report to the Western Boards of Trade on the progress that had been made in its operations which included the following:

#### EXPERIMENTAL PROGRAMME

As previously announced the Board determined practically at the inception of its work to await the outcome of its experimental programme before committing itself to the investment of large sums of money in capital equipment which might afterwards prove unsuitable for the purpose intended. Having adopted this point of view it became increasingly evident during the summer of 1919 that the Board's future work and indeed the successful solution of the whole problem of the commercial briquetting of lignites, were absolutely dependent upon the result of the experimental programme prosecuted in Ottawa during the months of June, July, August and September, 1919. At the same time the Board wishes to record its great appreciation of the co-operation and assistance of the Mines Branch, Department of Mines.

It was clearly seen that the two most important items of research facing the Board were those of (a) carbonizing and (b) briquetting.

**a. Carbonizing.**—As mentioned in the previous report, the Board was forced reluctantly to the opinion that no commercial carbonization of lignite had ever been undertaken and thereupon set itself to devise a type of apparatus that would carbonize lignite under commercial conditions. This was successfully accomplished. During the months of July, August, September and October, experimental runs were made on the carbonizer in Ottawa. The net result of the experiments was that the board became convinced that the problem had practically been solved. This fact enabled the chairman to announce at the public meeting of the Board held in Winnipeg in October, 1919, that the board had decided to proceed with the construction of its plant. Patents have been applied for on the design of the carbonizer in Canada, United States, Italy and Australia, and the Board believes that with the passage of time the carbonizer will prove a great value to the lignite industry in general.

**b. Briquetting.**—The difficulties confronting the Board on the question of briquetting were not so large as those of carbonizing, and yet the economic aspects were serious. It became apparent that the published results of briquetting experiments conducted by other investigators on anthracite were not at all applicable to the briquetting of carbonized lignite. As an example of this fact it may be noted that to produce a good briquette from carbonized lignite requires almost double the quantity of binder necessary to produce a correspondingly good briquette from anthracite fines. This condition made it essential that the Board should know beyond peradventure the minimum amount of binder necessary to produce the first quality briquette in order to judge of the future cost of such a product. Owing to the almost complete absence of native binding material in the West and to their consequent high cost when imported, it became essential to cut down to the utmost the quantity of binder used.

During the progress of the Board's investigations the following substances have been tried as binding agents:

- Coal tar pitches
- Hard wood tar pitches
- Lignite tars
- Sulphite liquor pitches.
- Asphalts
- Petroleum pitches
- Cement.
- Resins
- Starches.
- Flour and flour screenings
- Water glass
- Waste straw jelly, etc.

"Fairly satisfactory briquettes have been made with almost all of the above and very good briquettes with some of them. In addition all sorts of combinations of the foregoing materials have been tried and as a result the Board feels after consideration of all factors that for the present the best briquette will be a straight coal tar pitch briquette or one made by substituting flour screenings for some of the coal tar pitch.

"The question of smokiness has been one of the important considerations of the Board, and the conclusion has been reached that in the meantime it is better to get a good briquette (physically) on the market than to delay the consummation of the Board's work by a further experimental programme on secondary heat treatments of coking devices. In any event the substitution of some parts of flour for coal tar pitch has a marked effect in reducing the total quantity of smoke. The Board also feels that it is better to get any reasonable lignite briquette on the market at the very earliest moment and afterwards attempt to improve its quality as regards smokiness.

The foregoing brief analysis of experimental programme will indicate to the reader the net result as far as the two principal objectives are concerned.

#### SITE.

"When the decision had been reached to proceed with the erection of its main plant the Board set itself to choose a satisfactory site, and made a careful examination of all features affecting the situation. As a result the Board decided to place the plant at a point about midway between the mines of the Manitoba and Saskatchewan Coal Company and of the Western Dominion Collieries. The advantages of such a position were:

- i. An assured supply of raw material suitable for the Board's needs irrespective of weather conditions
- ii. An ample supply of water suitable for the Board's purposes

"After a long series of negotiations an agreement has been drawn up between the two mining companies and the Board by which the interests of the public are fully protected.

#### GENERAL PROGRAMME.

"The design of the plant was next completed, and competitive tenders called for, for its erection. The contract was awarded to Messrs. Smith Bros. & Wilson of Regina, and in spite of many adverse circumstances, good progress has been made. Owing, however, to extremely slow deliveries of material the Board wishes to record the fact that it will be quite impossible to have briquettes on the market by October, 1920. As an example of the difficulties the Board is facing, we have been in receipt of quotations for the supply of material with deliveries of from 12 to 32 weeks. This unprecedented situation has been the determining factor in the serious delay of the Board's programme.

#### PRESENT SITUATION

"To date the Board has let contracts for the supply of all buildings and equipment, with the exception of water supply and drainage, carbonizers, piping and housing. Plans and specifications for the water supply and drainage are now ready and bids are to be returned to the Board on or before September 14th. Plans and specifications for the carbonizers will be ready to distribute to the public on September 13th. The piping layouts are being prepared at the present time in the Board's offices. Housing plans were deferred for some little time awaiting the settlement of the financial side of the question. The whole question of housing seems, however, to be now arranged, and the drawings and specifications are being turned to completion."

#### Alberta

"Coal production in this province includes a small tonnage of semi-anthracite from the Bankhead mine at Banff, bituminous coals of excellent quality as well as a considerable tonnage of lignite coal.

In 1919 bituminous coal contributed 46.5 per cent of the total production, lignite 51.3 per cent, and semi-anthracite 2.2 per cent.

The total production of coal in Alberta in 1919 was 4,964,535 tons, valued at \$18,294,495, or an average of \$3.69 per ton, as compared with a production of 5,972,816 tons, valued at \$20,537,287, or an average of \$3.44 per ton in 1918.

There are many small operators in the province, the number reporting production in 1919 being 255. In 1919 there were 60 companies reporting a production in excess of 10,000 tons, and the aggregate production by these firms was 93.6 per cent of the total for the province. Thirteen mines reported a production exceeding 100,000 tons each, the largest operator being the West Canadian Collieries, Limited, with 537,271 tons from Bellevue and Greenhill collieries; the Canadian Pacific Railway, with a total of 397,487 tons from Bankhead, Lethbridge, and Taber; the North American Collieries, Limited, with 401,632 tons from Lovettville, Coalhurst, Evansburg, Dodds, and Drumheller; the Brazenor Collieries, Limited, with 282,544 tons from Nordegg; the Hillcrest Collieries, Limited, with 239,305 tons, and the Canmore Coal Company, with 201,748 tons.

Of the total production 4,577,236 tons were reported as sales, including 4,455,972 tons sold for consumption in Canada; 121,264 tons sold for export to the United States; 387,299 tons were used by producers, including coal charged to coke ovens, used for colliery operations, used for manufacture of briquettes, and used by workmen.

Alberta reached its highest production in 1918. The falling off of over 1,000,000 tons in 1919 is ascribed by the Chief Inspector of Mines for the province, in part to the accumulation at the end of 1918 of unusually large stocks in the hands of the trade or consumers. It will be noted also that less coal was shipped to points outside the province during the year 1919 than during the previous year. That portion of central Canada comprising the provinces of Saskatchewan, Manitoba, and Ontario west of the head of the Lakes, has been supplied annually with from 2,000,000 to 2,500,000 tons of coal imported from the United States. Restrictions on this supply during 1918 necessitated a larger consumption within the territory of Alberta coal. No doubt an effort will be made on the part of the Alberta producers to secure and retain an increasing proportion of this market. The maximum monthly production in Alberta shows a capacity of the mines of this province with present equipment, to produce at the rate of from 9,000,000 to 10,000,000 tons per annum.

The monthly production of anthracite, bituminous, and lignite coal during 1919, and the production of each of the larger collieries during 1919 and 1918 are shown in the following tables:

Monthly Production of Coal in Alberta, 1919

(In short tons.)

Instinct	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Year	
Knuff.....	12,730	11,645	12,414	13,679	76	39	750	2,611	12,278	14,673	13,905	15,521	111,124	
Rowsway.....	137,959	120,329	143,143	90,868	94,337	820	1,259	11,346	108,145	152,480	149,409	146,445	175,745	
Tannore.....	22,997	22,313	24,032	20,051	13,738	956	1,900	4,943	19,893	24,618	25,471	21,924	201,808	
Brazau.....	38,974	33,509	38,717	30,116	21,245	1,932	2,767	2,867	31,594	34,757	34,757	34,757	301,975	
Wasper Park.....	23,589	21,735	21,959	3,321	108	62	2,285	5,314	22,400	20,575	145,668	145,668	145,668	
Yellowwood Pass.....	42,832	40,988	39,747	30,712	21,181	307	1,959	13,114	37,896	44,952	45,008	47,141	361,440	
Mountain Park.....	16,557	17,277	11,493	13,124	8,754	182	279	744	8,942	12,691	11,527	11,527	112,964	
Total Bituminous.....	282,906	265,431	278,377	214,830	169,549	4,328	7,226	33,006	208,657	279,096	284,778	7,840 <sup>2</sup>	2,306,388	
Anthracite.....	6	346	236	297	90	60	131	150	185	31	9	881	1,021 <sup>3</sup>	
Bituminous.....	53,498	29,815	58,116	43,956	40,405	60	4,015	8,688	16,417	64,892	83,357	84,150	573,405	
Lignite.....	13	198	97	113	35	127	80	127	124	237	146	131	1,499	
Mazrath.....	16	444	265	257	115	127	151	1,29	330	790	1,194	98	6,013	
Milk River.....	10	5,277	3,387	5,728	1,994	2,403	1,446	1,097	5,628	12,925	18,141	18,141	101,163	
Upham.....	11	406	5,571	4,391	1,26	173	1,302	204	3,888	748	9,906	9,906	5,941	
Rowl J. Land.....	3	568	588	523	97	135	61	94	1,191	1,191	1,191	1,191	20,105	
Medicine Hat.....	4	4	276	531	211	280	288	967	424	941	1,435	1,435	1,435	
Aldersvile.....	4	55	32	13	15	142	2,016	6,606	43,418	121,030	33	33	4,458	
High River.....	44	47,189	34,141	52,889	11,843	15,254	1,73	2,699	3,754	8,856	5,402	5,402	70,751	
Drumheller.....	44	4	3,735	1,921	2,164	1,214	1,214	361	392	406	1,747	1,747	44,659	
Big Valley.....	6	732	618	776	1,727	1,727	1,727	1,727	1,727	1,727	1,727	1,727	6,765	
Brooks.....	19	1,908	1,416	2,360	406	667	1,717	1,218	1,738	4,622	4,496	4,496	25,940	
Hanna.....	13	1,251	1,048	1,280	1,338	1,253	1,901	2,433	6,229	1,816	1,757	1,757	18,476	
Iacobine.....	13	1,190	1,496	1,846	1,411	293	441	441	711	742	1,708	1,708	15,014	
Trochu.....	8	249	999	2,794	333	459	1,938	1,006	1,603	2,382	4,916	5,575	25,345	
Three Hills.....	4	239	271	359	26	30	245	314	209	274	514	609	5,742	
Carbon.....	17	1,741	1,952	1,471	10	10	1,881	6,416	1,881	1,881	2,734	2,734	11,309	
Battle River.....	16	5,401	5,387	5,390	1,881	1,881	5,716	6,416	6,716	6,716	12,786	12,786	14,310	
Camrose.....	6	5	5,823	5,208	5,116	2,549	3,399	4,379	10,635	18,652	28,976	30,804	26,007	
Tofield.....	44	9	21,322	19,784	26,071	9,196	11,493	8,835	11,493	1,739	13,096	18,234	19,209	
Clover Bar.....	8	10,150	9,177	9,624	3,461	1,002	1,932	475	1,739	7,371	1,042	1,042	9,855	
Nanaimo.....	44	5	1,830	1,403	9,424	2,453	267	267	16	335	1,162	1,162	10,741	
Cardiff.....	3	29,438	20,544	24,526	8,821	5,663	5,663	5,663	218	6,381	30,440	30,440	32,923	
Wainman.....	3	834	555	703	1,871	1,340	2,785	4,219	3,665	3,963	4,719	4,719	10,196	
Peace River.....	44	1	6,634	6,038	4,862	7,563	9,061	4,694	6,397	7,161	10,224	15,043	14,344	
Total Lignite.....	204,410	147,545	210,994	96,615	95,438	37,791	55,820	117,163	189,384	390,477	433,345	470,166	2,546,823	
Total Coal.....	251,500,048	424,621	502,755	325,124	265,084	42,161	63,402	143,247	50,507	51,510	684,244	71,830	764,100	4,964,535

## Monthly Production of Coal in Alberta, 1918

(In short tons)

District:	Production												Total
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
<b>Coal Districts</b>													
Winnipegosis	111,548	111,729	12,533	12,725	10,927	8,732	9,935	10,000	8,614	8,211	4,344	4,344	4,344
Bittern	5,128	5,554	1,253,229	136,751	148,166	142,178	149,113	147,071	138,656	14,341	1,172	1,172	1,172
Cain River	1,335	3,639	24,405	23,521	26,219	25,404	24,404	25,477	25,981	24,780	24,477	1,172	1,172
Peace River	7,787	4,744	24,903	23,407	32,445	35,767	32,179	36,081	41,740	26,762	18,758	18,758	18,758
Jasper Park	11,950	21,561	28,663	30,505	37,056	39,505	39,505	49,512	52,744	51,711	15,636	15,636	15,636
Yellowhead Pass	21,543	16,901	19,384	21,262	21,913	24,302	25,031	26,141	34,258	39,417	35,903	35,903	35,903
Mean - Park	11,817	13,089	13,203	12,290	10,840	10,639	11,585	10,171	8,849	12,608	11,277	11,277	11,277
Total Bituminous	1,240,187	214,421	44,819	270,943	260,781	260,689	260,689	260,346	270,177	264,216	263,545	263,545	263,545
Pinch Creek	449	478	281	205	186	157	157	101	502	502	502	502	502
Lethbridge	81,012	76,923	71,001	59,894	55,814	60,043	66,104	70,433	64,523	73,261	57,388	57,388	57,388
Macmillan	1,380	662	24	7	134	61	25	19,2	19,2	19,2	19,2	19,2	19,2
Milk River	611	509	387	240	324	324	324	364	179	409	8,386	8,386	8,386
Taber	21,208	18,947	7,097	1,862	5,228	11,578	15,825	17,512	16,955	18,466	17,2	17,2	17,2
Black Diamond	14,095	5,591	9,391	9,018	11,158	10,818	10,818	10,818	10,818	10,818	10,818	10,818	10,818
Medicine Hat	2,764	1,027	424	164	208	222	1,359	1,002	1,941	3,298	1,688	1,688	1,688
Aldersdale	763	611	552	500	500	1,051	418	370	1,051	1,051	1,051	1,051	1,051
High River	4,709	4,655	500	224	191	255	255	255	255	255	255	255	255
Dundurn	80,888	14,192	28,716	7,749	18,443	18,765	11,179	17,521	12,981	10,771	7,749	7,749	7,749
Big Valley	4,338	3,412	7,105	1,198	1,177	2,191	2,191	2,191	2,191	2,191	2,191	2,191	2,191
Brooks	1,053	939	777	251	472	468	1,016	671	1,274	2,299	4,058	4,058	4,058
Harrow	1,254	2,811	1,957	1,256	1,841	1,407	1,624	1,674	2,104	4,001	3,087	3,087	3,087
Lacombe	1,705	1,063	1,369	388	497	309	309	1,531	575	1,531	1,531	1,531	1,531
Iron Lake	1,356	2,813	801	126	202	659	816	1,006	1,006	1,006	1,006	1,006	1,006
Three Hills	6,308	2,311	1,076	205	1,238	1,166	1,117	1,411	1,411	1,411	1,411	1,411	1,411
Carbon	8,221	612	935	121	1,043	1,446	1,446	1,446	1,446	1,446	1,446	1,446	1,446
Battle River	2,215	2,882	725	355	355	355	355	355	355	355	355	355	355
Canmore	10,688	8,651	3,741	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147
Lethbridge	13,974	7,524	4,038	2,756	2,756	2,756	2,756	2,756	2,756	2,756	2,756	2,756	2,756
Clawes Bar	42,571	40,008	16,496	4,042	9,873	18,773	20,239	17,701	12,447	12,447	12,447	12,447	12,447
Kelowna	17,845	15,506	1,392	4,891	4,891	4,891	4,891	4,891	4,891	4,891	4,891	4,891	4,891
Nanaimo	2,797	2,885	1,185	793	871	919	1,292	1,292	1,292	1,292	1,292	1,292	1,292
Griffith	18,645	15,094	13,605	9,362	11,252	17,131	14,128	14,128	21,417	24,893	17,444	17,444	17,444
Wetaskiwin	2,136	2,131	1,370	1,370	1,370	1,370	1,370	1,370	1,370	1,370	1,370	1,370	1,370
Pendleton	11,717	8,629	2,828	1,901	6,964	8,441	6,369	10,369	10,369	10,369	10,369	10,369	10,369
Total Lignite	138,894	232,365	149,899	162,115	147,100	283,591	271,504	278,241	64,766	283,446	250,290	84,734	84,734
Grand total	610,439	468,738	4,475	251	386,841	418,811	503,312	550,781	535,441	553,572	444,738	503,312	503,312

**Production of Coal in Alberta, in 1919, by Principal Collieries.**  
(In short tons)

Name of Company, and Mine address	Time in operation	Total output	Total colliery consump- tion	Total production
Alberta Black Coal Co., Ltd., Drayton Valley	183 days	27,386	4,155	31,541
Alberta Coal Mining Co., Ltd., The Cardston	175 "	54,749	2,927	57,076
Alberta Coal Co., Ltd., Drumheller	180 "	47,198	3,655	50,853
Bell Coal Co., Cardiff	8 mos.	40,589	1,730	42,219
Bethune Collieries, Ltd., Bellevue	196 days	11,857	1,399	13,223
Big Valley Coal Co., Big Valley	11 "	30,061	1,645	31,306
Bruneau Collieries, Ltd., Notchview	16 "	26,698	5,846	282,544
Brookdale Collieries, Ltd., Loveland	89 "	12,815	404	13,219
Bush Mine Coal Co., Beverly	7 "	18,441	1,230	19,671
Cadomin Coal Co., Ltd., Cadomin	225 "	15,550	1,165	150,015
Canada West Coal Co., Ltd., Leduc	143 "	39,803	12,492	52,325
Canadian Pacific Railways Binkhead Mine				
Galt Mines, Lethbridge		19,156	6,921	168
Cannmore Coal Co., Ltd., Cannmore	196 days	741,454	33,716	285,170
Cardiff Collieries, Ltd., Cardiff	10 "	184,728	16,020	201,748
Chinook Coal Co., Ltd., Chinook	100 "	70,802	5,051	75,853
City of Lethbridge Coal Mine, Lethbridge	63 "	61,253	16,990	78,243
Clover Bar Coal Mine Co., Ltd., Clover Bar	71 "	11,844		11,844
Dawson Coal Co., Ltd., (The) Dawson	13 " days	13,583	1,984	15,567
Dinant Coal Co., Ltd., Dinant	175 days	14,586		14,586
Debell Coal Co., Ltd., (The) Tofield	200 "	92,626	968	23,504
Drumheller Land Co., (The) Drumheller	13 "	39,657	3,38	39,695
Edmonton Collieries, Ltd., Edmonton	158 "	29,487	2,880	32,467
Lillooet Coal Co., Ltd., Three Hills	249 "	18,210		18,210
Lederer Coal Co., Ltd., Lethbridge	242 "	16,615	2,032	18,645
Fraser-McKay Collieries, Ltd., Clover Bar	270 "	22,511	1,56	23,867
Great West Coal Co., Ltd., (The) Clover Bar	90 "	21,754	2,985	22,038
Great West Coal Co., (Star Mine), Aerial	95 "	86,927	6,980	93,916
Hamilton Coal Co., Wayne	157 "	33,153	941	34,094
Hillerest Collieries, Ltd., Hillcrest	9 mos.	15,309	530	15,839
Humberstone Coal Co., Beverly	222 days	226,463	12,842	239,305
Hy-Grade Coal Co., Drumheller	194 "	57,201	5,932	63,133
International Coal & Coke Co., Ltd., Coleman	219 "	39,558	226	40,084
Jasper Park Collieries, Ltd., Jasper	180 "	158,240	15,432	173,672
Jewell Collieries, Ltd., Wayne	158 "	41,106	3,702	44,808
Lakeside Coal Co., Ltd., Wabamun	134 "	20,256	328	20,784
Marcus Collieries, Ltd., Clover Bar	216 "	31,328	1,580	32,917
McGillivray Creek Coal & Coke Co., Ltd., Coleman	265 "	21,996	1,084	23,080
McPeak, P. J., Edmonton	212 "	202,521	8,357	210,878
Midland Collieries, Ltd., Midlandvale	222 "	17,339	1,688	19,227
Mountain Park Coal Co., Ltd., Mountain Park	163 "	38,800	4,625	63,425
Newcastle Coal Co., Ltd., Drumheller	249 "	103,848	9,116	112,964
North American Collieries, Ltd.				
Pacific Pass, Lovettville	217 "	72,008	8,130	80,138
Pembina, Evansburgh	250 "	98,275	7,921	106,196
Regal, Dodds	9 mos.	13,413		13,413
Monarch, Drumheller	119 days	32,953	3,154	36,107
Lethbridge, Coalhurst (Kipp)	187 "	150,849	14,929	165,778
Oiphant-Munson Collieries, Ltd., Oiphant Mines		\$8,703	985	89,688
Ottewell Coal Co., Ltd., Clover Bar	280 days	11,000	200	11,200
Premier Coal Co., Ltd., Drumheller	5 mos.	24,119	738	24,857
Redcliff Brick and Coal Co., Redcliff	180 days	15,674		15,674
Regal Collieries, Ltd., Taber	171 "	22,992	1,536	25,528
Rock Springs Coal and Brick Co., Ltd., Elean	174 "	13,283	1,943	15,226
Rosedale Coal and Clay Products Co., Ltd., Elean	166 "	75,947	1,946	77,893
Rose Deer Coal Mining Co., Ltd., Wayne	151 "	75,200	4,024	79,824
Round Hill Collieries, Ltd., Roundhill	243 "	20,350	175	20,525
Saunders Creek Collieries, Ltd., Saunders	264 "	20,330	1,004	21,334
Sheraton Coal Co., Drumheller	165 "	44,074	2,467	46,541
Spicer Coal Co., Ltd., Dinant	171 "	16,950	446	17,396
Tofield Coal Co., Ltd., Tofield	249 "	52,763	800	53,563
Twin City Coal Co., Ltd., Edmonton South	174 "	30,819	5,072	35,891
West Canadian Collieries Bellevue	209 "	290,094	12,690	302,784
Greenhill	203 "	228,815	5,672	234,487
Western Commercial Co., Ltd., Wayne	131 "	57,432	4,260	61,692
Western Gem Mining Co., Ltd., Drumheller	181 "	47,421	1,500	48,921
Yellowhead Coal Co., Ltd., Coalspur	7 mos	15,288	1,078	16,366
Total (60)		4,268,038	378,497	4,646,535
All other operators (195)		309,198	8,802	318,000
Total, Alberta		4,577,236	387,299	4,964,535

a) Includes coal used in the manufacture of briquettes, a large portion having been lifted from waste heap.

## Production of Coal in Alberta, in 1918, by Principal Collieries

In thousands of tons

Name of Colliery and Mine, etc.	Tons produced	Total consumption	Total consumption plus exports	Total output
Alberta Block Coal Co., Ltd., Drumheller	15	8	13	1,473
Alberta Coal Mining Co., Ltd., (The) Galt	4	68	72	7,000
Athabasca Coal Mining Co., Ltd., Drumheller	12	4	7	1,900
Big Valley Collieries, Big Valley	80	19	99	974
Banner Coal Co., Ltd., Cardiff	6	6	6	600
Blue Diamond Coal Co., Ltd., Brule Mine	25	183	188	500
Brazeau Collieries, Ltd., Norden	75	50	100	6,074
Bush Mine Coal Co., Beverly	6	6	6	600
Cadomin Coal Co., Ltd., Coalspur	90	130	200	1,090
Canada West Coal Co., Ltd., Taber	11	80	100	1,311
Canadian Pacific Railway				
Bankhead Mine	34	31	62	84,404
Galt No. 3, Lethbridge	98	91	182	14,580
Galt No. 6, Lethbridge	30	250	275	21,035
Cannmore Coal Co., Ltd., Cannmore	288	768	1,036	16,406
Cardiff Collieries, Ltd., Cardiff	96	102	204	8,011
Chinook Coal Co., Ltd., Commerce	95	85	170	19,701
City of Lethbridge Coal Mine, Lethbridge	773	13	786	12,573
Clover Bar Coal Co., Ltd., Clover Bar	20	13	25	2,257
Dawson Coal Co., Ltd., The Edmonton	25	16	32	2,020
Dobell Coal Co., Ltd., (The) Tofield	28	30	80	9,960
Drumheller Land Co., (The) Drumheller	24	45	59	2,880
Ellis Coal Co., Ltd., Three Hills	107	20	94	1,891
Edmonton Collieries, Ltd., Clover Bar	280	11	25	927
Federal Coal, Limited, Lethbridge	175	17	116	1,208
Franco-Canadian Collieries, Ltd., Frank	111	5	138	7,305
Fraser-Mac Kay Collieries, Ltd., Clover Bar	217	13	341	105
Great West Coal Co., Ltd., (The) Clover Bar	235	66	111	5,319
Great West Coal Co., Ltd., Aerial, (Star mine)	230	45	274	1,083
Hamilton Coal Co., Ltd., Wayne		15	30	50
Hillcrest Collieries, Ltd., Hillcrest	200	240	658	12,762
Humberstone Coal Co., Beverly	200	85	212	9,730
International Coal and Coke Co., Ltd., Coleman	300	178	707	6,734
Jasper Park Collieries				
Jasper Mine	269	67	138	5,284
Miette Mine	205	23	49	151
Keith and Fulton Coal Co., Clover bar	171	10	84	100
Lakeside Coals Limited, Wabamun	218	17	95	980
McGillivray Ck. Coal and Coke Co., Ltd., Coleman	296	268	154	9,246
McPeak, P. J., Ltd., Edmonton	257	19	919	2,178
Midland Collieries, Ltd., Midlandvale	219	73	123	4,400
Mountain Park Coal Co., Ltd., Mountain Park	905	126	549	10,493
Newcastle Coal Co., Ltd., Drumheller	185	52	417	1,640
North American Collieries, Ltd.				
Pacific Pass Colliery, Lovettsville	264	73	667	8,891
Pembina Colliery, Evansburgh	130	94	158	7,191
Regal Colliery, Dodds	125	10	300	10
Monarch Colliery, Drumheller	184	38	295	5,547
Lethbridge Colliery, Coalhurst (Kipp)	298	230	959	19,469
Olyphant-Munson Collieries, Ltd., Olyphant Mine	268	66	147	1,443
Peerless Coal Co., Ltd., Wayne	208	1	815	505
Premier Coal Co., Ltd., Drumheller	165	34	130	507
Redcliff Brick and Coal Co., Ltd., Redcliff	231	14	574	1,457
Regal Collieries, Limited, Taber	277	21	814	2,746
Rock Springs Coal and Brick Co., Ltd., Elean	235	20	760	2,273
Rosedale Coal and Clay Products Co., Ltd., Rosedale	194	104	770	1,673
Rose Deer Coal Mfg. Co., Ltd., Wayne	177	89	972	5,004
Round Hill Collieries, Ltd., Roundhill	249	16	160	429
Scranton Coal Co., Ltd., Drumheller	196	24	614	2,027
Spicer Coal Co., Ltd., (The) Dinant	230	13	984	605
Saunders Creek Domestic & Steam Coal Co., Saunders		15	995	466
Sturgeon Consolidated Collieries, Ltd., Namao	2552	15	907	4,20
Tofield Coal Co., Ltd., Tofield	200	32	544	1,400
Trusts and Guarantee Co., Ltd., Diamond City Mine	121mos	33	663	5,750
Twin City Coal Co., Ltd., Edmonton South	263	49	876	6,939

Carried forward.

<sup>a</sup> Includes 55,402 used in making briquettes. There were 99,103 tons of briquettes sold, and 1,095 tons used in colliery consumption and sold to workmen. <sup>b</sup> Including 53,402 tons used in manufacturing coke.

### Production of Coal in Alberta in 1918, by Principal Collieries - *Continued.*

Name of Company, and Mine numbers	1916 Short tons	1917 Short tons	1918 Short tons	1919 Short tons
West Canadian Colliery				
Bellevue.....	302	419,963	14,890	434,869
Greenhill.....	297	327,579	5,749	333,128
Western Commercial Co., Ltd., Wayne.....	195	87,401	4,063	92,394
Western Gem Mfg. Co., Ltd., Drumheller.....	221	48,122	4,538	52,600
Yellowhead Coal Co., Ltd., Coulspur.....	278	37,984	2,424	40,408
Total (61).....	.....	5,301,513	473,357	5,774,870
All other Operators (200).....	.....	193,721	4,225	197,946
Total, Alberta.....	.....	5,495,234	477,582	5,972,816

\*Included consumption under boilers, etc., and coal used by workmen.

### Annual Production of Coal in Alberta

Calendar Year	Short Tons	Value	Average per ton	Calendar Year	Short tons	Value	Average per ton
1886.....	43,220	\$1,112	\$2.61	1903.....	495,893	1,117,341	\$2.25
1887.....	74,132	157,577	2.13	1904.....	661,732	1,404,524	2.12
1888.....	115,124	183,354	1.59	1905.....	931,917	1,993,915	2.14
1889.....	97,304	179,640	1.85	1906.....	1,246,360	2,914,782	2.10
1890.....	128,753	198,298	1.54	1907.....	1,591,579	3,836,296	2.41
1891.....	174,131	437,243	2.51	1908.....	1,685,061	4,127,311	2.45
1892.....	178,970	460,605	2.57	1909.....	1,994,741	4,838,109	2.43
1893.....	230,070	586,260	2.55	1910.....	2,804,469	7,065,736	2.44
1894.....	184,940	473,827	2.58	1911.....	1,511,030	3,979,264	2.63
1895.....	169,885	382,520	2.25	1912.....	3,240,577	8,113,525	2.50
1896.....	209,182	581,832	2.78	1913.....	4,014,755	10,418,941	2.59
1897.....	242,163	630,408	2.60	1914.....	3,083,015	9,350,392	2.64
1898.....	315,098	787,720	2.50	1915.....	3,360,818	8,283,079	2.46
1899.....	309,600	774,000	2.50	1916.....	4,559,054	11,386,577	2.50
1900.....	311,450	778,825	2.50	1917.....	4,738,368	14,153,685	2.98
1901.....	11,275	\$50,687	2.50	1918.....	5,972,816	20,537,287	3.44
1902.....	402,819	980,601	2.38	1919.....	14,964,535	18,294,495	3.68
Total.....				151,072,492 (140,010,744)			

## Disposition of the Total Output of Coal, Briquettes and Coke of Alberta Calendar Year 1919

(From Annual Report of the Mines Branch of the Province of Alberta)

	Sold for Consumption in					Used			Total output for year including put to stock and waste, but not lifted from store or wagon				
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	Total Sales	Making Briquettes	Making Coke	Under Colliery Boilers				
Domestic.....	1,219,070	33,111	865,698	270,467	248	6,696	2,385,290	...	102,364	57,105	11,687	10,347	2,611,000
Rutumous.....	1,783,178	57,207	42,547	42,547	60	114,409	2,223,175	...	102,364	5,828	2,345,758	241	2,345,758
Anthracite.....	8,862	5,083	3,917	1,276	...	60	107	19,245	27,050	25	3,777	12,462	4,044
Total.....	2,991,110	96,461	1,115,329	214,290	306	121,212	4,637,710	27,950	279,836	24,926	78,464	16,7	16,401
Briquettes.....	47,856	4,122	12,287	5,671	70	70,016	306	...	33	454	...	454	70,453
Coke.....	120	113	63	263	...	...	...	...	...	568	...	...	...

The bituminous coal shown in these tables as being sold for consumption in Alberta includes coal sold to railway companies for the use of locomotives, & considerable percentages of which was probably used in other provinces.

## Disposition of the Total Output of Coal, Briquettes and Coke of Alberta Calendar Year 1918

(From Annual Report of the Mines Branch of the Province of Alberta)

	Sold for Consumption in					Used			Total output for year including put to stock and waste, but not lifted from store or wagon				
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	Total Sales	Making Briquette	Making Coke	Under Colliery Boilers				
Domestic.....	1,285,419	26,849	1,091,544	387,728	444	3,154	2,715,138	...	104,146	3,802	129,577	2,035,061	
Rutumous.....	2,210,734	60,163	273,045	40,152	185	10,082	2,127,741	...	104,146	8,798	15,411	2,082,634	
Anthracite .....	14,441	5,177	7,708	3,308	40	11,100	10,102	1,100	28,567	45	10,147	131,325	
Total.....	3,440,154	101,189	1,372,430	511,168	629	133,276	5,758,855	55,402	51,492	112,630	12,397	161,153	6,148,610
Briquettes.....	71,510	4,368	16,060	7,710	870	...	1	1	1	26	...	26	787
Coke.....	232	31,225	232	...	...	32,061	...	...	...	197	...	197	22,553

The bituminous coal shown in these tables as being sold for consumption in Alberta includes coal sold to railway companies for the use of locomotives, & considerable percentages of which was probably used in other provinces.

### British Columbia

The production of coal in British Columbia in 1919 was 2,435,933 tons, as compared with 2,568,589 tons in 1918, a decrease of 132,656 tons, or 5·2 per cent.

Of the total production in 1919, 2,020,826 tons were reported as sales, including 1,168,122 tons sold for consumption in Canada; 852,704 tons sold for export to the United States; 415,107 tons were used by producers, including 163,116 tons for making coke and 251,991 tons for the operation of collieries and by workmen.

The production and distribution of the collieries on Vancouver island, of the Crowsnest district, and of the interior at Nicola and Princeton, are shown separately in the following tables.

The three largest operators in the province were: the Crowsnest Pass Coal Company, with a total production of 541,312 tons; the Canadian Collieries (Dunsmuir), Limited, with 758,641 tons; and the Canadian Western Fuel Company, with 643,520 tons. These three companies contributed 79·8 per cent of the province's production.

Coal production in British Columbia reached a maximum in 1910, with a total of 3,330,745 tons. In the following year the production fell to 2,542,532 tons and the average production during the past nine years has been slightly less—2,532,000 tons. Previous to 1895 practically 80 per cent of the coal production was sold for export. The development of metallurgical and industrial activity, however, during the following fifteen years, greatly increased the home consumption, while the actual tonnage sold for export has not shown any marked change during thirty years.

#### Coal Production by Districts in British Columbia, 1919

(In short tons)

Coal	Vancouver Island	Nicola and Princeton	Crowsnest and East Kootenay	Total
Sold for consumption in Canada.....	949,234	145,583	73,305	1,168,122
Sold for export to United States.....	427,103	7,068	418,533	852,704
Sold for export to other countries.....	nil	.....	nil	.....
 Total sales.....	1,376,337	152,651	491,838	2,020,826
Used for making coke.....	62,353	.....	100,763	163,116
Used for colliery consumption, etc.....	186,083	13,421	52,487	251,991
 Production.....	1,624,773	166,072	645,088	2,435,933
Per cent.....	66.7	6.8	26.5	100.00
Output.....	1,915,129	168,993	623,836	2,707,958

#### Coal Production by Districts in British Columbia, 1918

(In short tons)

Coal	Vancouver Island	Nicola and Princeton	Crowsnest and East Kootenay	Total
Sold for consumption in Canada.....	858,511	167,819	86,796	1,113,126
Sold for export to United States.....	446,468	13,234	383,284	842,986
Sold for export to other countries.....	65,427	.....	.....	65,427
 Total sales.....	1,370,406	181,053	470,080	2,021,539
Used for making coke.....	44,993	.....	264,664	309,657
Used for colliery consumption, etc.....	154,772	16,780	65,841	237,393
 Production.....	1,570,171	197,833	800,585	2,568,589
Per cent.....	61.1	7.7	31.2	100.0

## Local Production by Collieries in British Columbia, 1919

in short tons

Colliery	Stock			Stock		
	In canned	To United States	To other countries	In canned	Making coke	In canned colliery boilers, etc.
1. Harwood No. 1 Mine	115,361	63,923	—	—	—	—
Reserve and Wakess- ell East Wellington No. 1 Mine, Port	175,924	10,317	—	—	—	—
Wellington Latouche Mine, East Ashanti,	46,085	5,447	—	—	—	—
Conor Mines, Cinnibarwood	34,852	—	—	—	—	—
4. South Wellington Mine	180,288	71,171	—	—	—	—
5. Granby, ...	343,554	104,368	—	—	—	—
6. Grant, ...	40,610	5,650	—	—	—	—
7. Michell, ...	21,421	3,010	—	—	—	—
Coal Creek, ...	11,340	—	—	—	—	—
8. Corinth, ...	15,610	—	—	—	—	—
9. Middle-shaft	28,950	3,672	—	—	—	—
10. Inland Coal Hill,	60,488	—	—	—	—	—
11. Princeton	81,290	—	—	—	—	—
12. Compton	41,470	—	—	—	—	—
13. Ashanti, ...	15,625	3,055	—	—	—	—
14. Merritt	4,407	5,063	—	—	—	—
	2,290	—	—	—	—	—
	650	—	—	—	—	—
	1,168,172	\$5,704	—	—	—	—
	2,020,826	—	—	—	—	—
	108,1146	—	—	—	—	—
	2,455,933	—	—	—	—	—
	295,590	—	—	—	—	—
	4,17,465	—	—	—	—	—
	\$8,050	—	—	—	—	—
	1,707,958	—	—	—	—	—

1. Canadian Western Fuel Company

2. British Columbia Coal Mining Co.

3. Canadian Collieries (Vancouver), Ltd.

4. Pacific Coast Coal Mines, Ltd.

5. Granby Consolidated Mfg., S., & Power Co., Ltd

6. Nanose Collieries, Ltd.

7. New West Coal Co., Ltd.

8. Coal vs. Coal, etc., Coke Co., Ltd.

9. Middle-shaft Colliery, Ltd.

10. Inland Coal Co., Ltd.

11. Princeton Colliery and Land Co., Ltd.

12. Coal-on-Centuries, Ltd.

13. Elkwa Collieries Co.

14. Merritt Collieries, Ltd.

## Coal Production by Collieries in British Columbia, 1918

In short tons

Colliery	Sold			Under Contract holders, etc.			Produc- tion			Stocks		
	To Canada	To United States	Total	Mak- ing coke	Total	Under contract holders, etc.	Wash- ing, etc.	Total Wash- ing, etc.	First of Year	Last of Year	On hand	
1. Harwood No. 1 Mine.....	140,502	75,478	215,980	9,767	8,710	108,417	3,477	11,401	6,961	5,810	26,001	
2. Fort Wellington No. 1 (Single Pit)	204,764	110,757	315,421	9,904	30,521	111,414	4,441	11,441	11,441	3,749	141,280	
3. Fort Wellington Extension Mine, Aldershot	59,024	39,425	98,449	9,664	20,820	115,080	4,664	12,227	12,227	3,757	110,498	
4. Comox Mines, Cumberland.....	5,176	5,410	10,586	10,416	10,416	17,744	2,111,198	61,231	60,635	4,635	27,548	
5. Comox Mines, Cumberland.....	164,742	28,638	193,380	9,800	44,917	13,114	46,570	144,948	5,750	4,907	60,247	
6. South Wellington Mine.....	214,153	141,190	355,343	13,440	77,340	20,777	98,687	18,508	4,108	4,108	92,745	
7. Grandy.....	37,283	40,017	77,299	1,599	1,599	14,680	14,680	14,680	4,308	4,308	18,604	
8. Grant.....	11,809	11,809	23,618	2,000	2,000	1,711	1,711	1,711	3,722	3,722	31,181	
9. Michel.....	12,358	14,000	26,358	2,027	2,027	1,26,729	30,524	31,181	4,507	4,507	4,507	
10. Michel.....	16,514	16,514	33,028	2,027	2,027	16,635	16,635	16,635	7,2	7,2	13,350	
11. Coal Creek.....	35,764	240,642	276,406	14,125	36,164	109,886	8,235	108,709	20,160	140	17,140	
12. Corbin.....	34,758	75,128	110,886	10,886	10,886	11,711	11,711	11,711	11,711	11,711	11,711	
13. Middlesboro.....	106,448	106,448	212,896	10,448	10,448	11,561	11,561	11,561	11,561	11,561	11,561	
14. Inland (Coal Hill).....	35,184	35,184	70,368	3,184	3,184	7,200	41,663	1,747	1,747	1,747	9,657	
15. Princeton.....	22,663	11,780	34,443	4,443	4,443	4,443	4,443	4,443	4,443	4,443	4,443	
16. Coalmont.....	2,890	1,454	4,344	1,454	1,454	644	644	644	644	644	644	
17. Ashman.....	644											
<b>Total</b>	<b>1,113,126</b>	<b>841,086</b>	<b>1,954,212</b>	<b>65,427</b>	<b>2,921,720</b>	<b>309,655</b>	<b>217,363</b>	<b>2,598,389</b>	<b>2,595,982</b>	<b>28,245</b>	<b>2,879,099</b>	

1. Canadian Western Fuel Company  
2. British Columbia Coal Mining Co.  
3. Canadian Collieries (Dunsmuir), Ltd.  
4. Pacific Coast Coal Mines, Ltd.  
5. Granby Consolidated Mfg., S., & Power Co.

6. Nanaimo Collieries, Ltd.  
7. Crows Nest Coal Co., Ltd.  
8. Coal and Coke Co., Ltd.  
9. Middle-shore Collieries, Ltd.

10. Longue Pointe Coal Co., Ltd.  
11. Princeton Coal and Coke Co., Ltd.  
12. Compton Collieries, Ltd.  
13. Elkwater Collieries, Ltd.

## Annual Production of Coal in British Columbia

Calendar Year	Output	Home consumption	Sold for Export	Production*		Price per long ton	Value
				Eng.	St.		
1836 to 1840	189,785					568,480	4.00
1874	81,547	25,023	56,038	81,061	90,788	3.00	243,783
1875	110,145	31,252	66,392	97,044	109,361	3.00	291,932
1876	139,192	17,856	122,329	140,185	157,007	3.00	420,555
1877	154,052	24,311	115,381	139,602	156,455	3.00	449,616
1878	170,846	26,166	164,682	190,848	211,759	3.00	562,744
1879	241,301	40,294	192,096	232,390	260,271	3.00	691,179
1880	267,593	46,513	225,849	272,302	250,015	3.00	817,081
1881	228,357	40,191	189,323	229,514	252,956	3.00	688,511
1882	282,139	56,161	232,411	288,572	320,261	3.00	865,756
1883	213,299	64,786	149,507	214,156	249,075	3.00	643,059
1884	304,070	87,388	300,478	309,883	341,130	3.00	781,288
1885	365,596	95,227	267,797	355,024	377,081	3.00	969,976
1886	326,636	85,987	249,205	351,102	375,445	3.00	1,065,776
1887	413,260	99,216	334,839	434,055	485,742	3.00	1,312,165
1888	489,301	115,953	365,714	481,661	539,466	3.00	1,445,901
1889	579,830	124,574	443,675	568,249	619,439	3.00	1,704,711
1890	678,140	177,075	508,270	685,945	691,583	3.00	2,076,045
1891	1,029,097	202,697	806,479	1,069,175	1,170,177	3.00	3,107,528
1892	826,335	196,223	640,579	836,802	919,202	3.00	2,540,696
1893	978,294	207,851	768,917	976,468	1,076,188	3.00	3,163,794
1894	1,012,933	165,776	827,642	993,418	1,121,178	3.00	2,984,271
1895	939,634	188,349	756,334	944,635	1,078,445	3.00	3,184,049
1896	894,882	261,984	634,238	890,227	1,093,694	3.00	2,888,046
1897	802,296	290,310	619,860	910,170	1,019,269	3.00	3,047,512
1898	1,136,485	375,423	752,863	1,128,280	1,365,980	3.00	3,484,858
1899	1,306,324	526,058	751,711	1,247,769	1,431,937	3.00	3,873,40
1900	1,500,178	685,667	914,184	1,599,854	1,791,823	3.00	4,790,755
1901	1,604,557	799,666	914,163	1,713,829	1,919,488	3.00	5,141,487
1902	1,641,626	837,871	776,509	1,616,680	1,898,442	3.00	4,841,146
1903	1,450,603	947,499	549,449	1,496,948	1,676,884	3.00	4,496,844
1904	1,685,698	1,129,465	533,593	1,663,058	1,867,695	3.00	4,986,174
1905	1,736,696	1,089,667	647,343	1,737,010	1,915,452	3.00	5,211,039
1906	1,809,076	1,236,476	679,829	1,916,305	146,262	3.00	2,748,915
1907	2,219,602	1,438,402	673,114	2,111,746	2,314,808	3.50	2,390,300
1908	111,931	1,486,511	397,157	2,084,738	2,313,718	3.50	2,292,878
1909	1,388,196	1,585,232	741,667	2,320,809	2,606,127	3.50	8,144,145
1910	1,52,207	1,798,873	1,175,007	2,973,880	3,313,745	3.50	10,408,780
Total				56,161,375	62,900,741		192,794,531

\*This production is obtained by adding "Home Consumption" and "Sold for Export."

52,935 tons of this amount were reported as sales without the division into "Home Consumption" and "Sold for Export."

### Yukon

Coal production in the Yukon district in 1919 was reported as 1,100 tons, all the product of the Tantalus Mine of the Five Fingers Coal Company, near Whitehorse.

#### Annual Production of Coal in Yukon Territory

Calendar year	Short tons	Value	Average per ton \$	Calendar year	Short tons	Value	Average per ton \$
1901	5,864	86,230	14.70	1911	2,840	12,780	4.50
1902	4,910	37,280	7.59	1912	9,245	44,958	4.86
1903	1,849	29,584	16.00	1913	19,722	95,945	4.86
1904				1914	13,443	53,760	4.00
1905	7,000	21,000	3.00	1915	9,724	38,896	4.00
1906	7,009	28,000	4.00	1916	3,300	13,200	4.00
1907	15,000	60,000	4.00	1917	4,872	29,232	6.00
1908	3,847	21,158	5.50	1918	2,900	11,000	4.00
1909	7,364	49,502	6.72	1919	1,100	4,400	4.00
1910	16,185	110,925	6.85	Total..	136,165	748,450	

Part of this production was mined in 1900.

Value not reported, but estimated.

### Coke

The accompanying statistics cover only the production of coke in by-product and beehive coke oven plants and do not include retort coke recovered by gas companies.

Both domestic and imported coal are used in the manufacture of coke in Canadian coke oven plants.

In 1919, 854,835 tons of domestic and 1,025,706 tons of imported coal were charged to coke ovens, from which was obtained an output of 1,160,470 tons of coke, thus averaging 0.617 tons of coke per ton of coal charged. Coke from by-product ovens comprised 89 per cent of the total.

In 1918, 1,348,232 tons of domestic coal, and 635,010 tons of imported coal were charged to coke ovens, from which was obtained an output of 1,258,284 tons of coke, thus averaging 0.634 tons of coke per ton of coal charged. Coke from by-product ovens comprised 70 per cent of the total.

The amount of coke sold or used by producers in 1919 was 1,133,680 tons, as compared with 1,250,744 tons in 1918, a slight decrease.

In addition to the tonnage sold or used by producers, there were imported during 1919, 383,374 tons of coke, while the exports totalled 14,709 tons. The Canadian consumption in 1919 was, therefore, 1,502,345 tons, a decrease of 37 per cent. The consumption of oven coke during recent years has been as follows: 1,285,228 tons in 1908; 1,449,369 tons in 1909; 1,581,832 tons in 1910; 1,677,188 tons in 1911; 1,981,832 tons in 1912; 2,186,170 tons in 1913; 1,509,068 tons in 1914; 1,772,461 tons in 1915; 2,178,318 tons in 1916; 2,192,373 tons in 1917; and 2,386,722 tons in 1918.

**Coke Production, 1919**

(In short tons)

Province	Coal charged to ovens	Coke output	Stock on hand		Coke sold or used	Per cent of total production	Value of coke sold or used
			Jan. 1	Dec. 31			
Nova Scotia.....	609,696	394,744	3,034	13,552	383,253	33.82	\$ 3,939,906
Ontario.....	*1,025,706	667,081	9,281	26,856	649,506	57.29	4,896,662
Alberta.....			565	.....	565	0.04	3,602
British Columbia.....	155,139	98,645	2,164	453	100,356	8.85	750,217
Total.....	1,880,541	1,160,470	15,044	40,861	1,133,680	100.00	\$ 9,720,387

\*All imported coal.

**Coke Production, 1918**

(In short tons)

Province	Coal charged to ovens	Coke output	Stock on hand		Coke sold or used	Per cent of total production	Value of coke sold or used
			Jan. 1	Dec. 31			
Nova Scotia.....	985,113	581,870	1,507	3,034	580,433	46.41	\$ 5,966,609
Ontario.....	* 635,010	431,970	2,424	9,307	425,087	33.99	3,300,127
Alberta.....	53,462	32,801	505	652	32,654	2.61	213,884
British Columbia.....	300,657	211,643	3,300	2,373	212,570	16.99	1,554,575
Total.....	1,983,242	1,258,284	7,826	15,366	1,250,744	100.00	\$ 11,035,195

\*All imported coal.

**Distribution of Coke Production, 1919**

(In short tons)

	Nova Scotia	Ontario	Alberta	British Columbia	Total
Sold in Canada.....	1,629	109,961	565	71,305	183,460
Sold for export.....				9,109	9,109
Total sales.....	1,629	109,961	565	80,414	192,569
Used by maker in blast furnace or otherwise.....	381,624	539,545	.....	10,942	941,111
Total sold or used.....	383,253	649,506	565	100,356	1,133,680
Number of ovens in operation Dec. 31.....	86	240	.....	261	587

### Coke Production

(In short tons)

Year	Coal charged to ovens	Coke output	% Recovery per charge	Stock on hand		Coke sold or used	Value of coke sold or used	Average price
				Jan. 1	Dec. 31			
1910.....	1,373,793	901,269	65.6	19,216	17,770	902,715	\$3,462,872	\$3.84
1911.....	1,409,844	954,353	67.7	17,826	36,560	935,651	3,630,410	3.88
1912.....	2,053,807	1,406,028	68.5	39,073	33,872	1,411,229	5,164,331	3.66
1913.....	2,247,913	1,517,133	67.5	33,926	20,560	1,530,499	5,919,596	3.87
1914.....	1,541,547	1,015,253	65.9	20,634	12,027	1,023,860	3,658,514	3.55
1915.....	1,856,393	1,200,766	64.7	8,671	38,964	1,170,473	4,258,580	3.64
1916.....	2,134,911	1,448,782	67.9	38,934	17,975	1,469,741	6,049,412	4.12
1917.....	1,928,923	1,231,865	63.9	22,653	7,827	1,245,862	6,662,581	5.35
1918.....	1,983,242	1,258,284	63.4	7,826	15,366	1,250,744	11,035,195	8.82
1919.....	1,880,541	1,160,470	61.7	15,044	40,861	1,133,680	9,720,387	8.57

### Annual Production of Coke

Calendar Year	Short Tons	Value	Average per Ton	Calendar Year	Short Tons	Value	Average per Ton
1886.....	35,396	\$ 101,940	\$2.88	1903.....	561,318	\$1,734,404	\$3.09
1887.....	40,428	135,951	3.36	1904.....	554,083	2,032,048	3.66
1888.....	45,373	134,181	2.96	1905.....	700,488	2,436,211	3.48
1889.....	54,539	155,043	2.84	1906.....	782,055	2,863,503	3.66
1890.....	56,450	166,298	2.95	1907.....	842,003	3,583,468	4.26
1891.....	57,084	175,592	3.08	1908.....	858,257	3,449,361	4.02
1892.....	56,135	160,249	2.85	1909.....	862,011	3,484,393	4.04
1893.....	61,078	161,790	2.65	1910.....	902,715	3,462,872	3.84
1894.....	58,044	148,551	2.56	1911.....	935,651	3,630,410	3.88
1895.....	53,356	143,047	2.68	1912.....	1,411,229	5,164,331	3.66
1896.....	49,619	110,257	2.22	1913.....	1,530,499	5,919,596	3.87
1897.....	60,686	176,457	2.91	1914.....	1,023,860	3,658,514	3.55
1898.....	87,600	286,000	3.26	1915.....	1,170,473	4,258,580	3.64
1899.....	100,820	350,022	3.47	1916.....	1,469,741	6,049,412	4.12
1900.....	157,134	649,140	4.13	1917.....	1,245,862	6,662,581	5.35
1901.....	365,531	1,228,225	3.36	1918.....	1,250,744	11,035,195	8.82
1902.....	502,043	1,519,185	3.03	1919.....	1,133,680	9,720,387	8.57

### Annual Production of Coke by Provinces

Calendar Year	Nova Scotia		Ontario		Alberta		British Columbia	
	Short Tons	Value	Short Tons	Value	Short Tons	Value	Short Tons	Value
1897..	41,532	\$ 90,950		\$		\$	19,154	\$ 85,507
1898..	48,400	111,000					39,200	175,000
1899..	62,459	178,767					38,361	171,255
1900..	61,767	223,395					95,367	425,745
1901..	222,094	590,560					142,834	637,065
1902..	363,330	899,930					138,713	619,255
1903..	371,745	888,094					189,753	846,310
1904..	275,927	808,022			20,984	78,936	257,172	1,148,090
1905..	386,366	1,054,712			44,866	179,464	269,256	1,202,035
1906..	476,364	1,540,976			69,486	268,042	236,205	1,054,485
1907..	524,110	1,688,070			76,321	297,595	241,572	1,049,432
1908..	505,929	1,658,151			75,645	309,019	276,083	1,482,191
1909..	492,992	1,608,092			87,233	366,734	281,786	1,509,567
1910..	508,058	1,655,775	24,685	148,110	121,578	486,312	248,394	1,172,675
1911..	557,554	1,814,977	259,554	1,318,303	36,216	146,251	82,327	350,879
1912..	625,918	1,840,129	379,854	1,709,343	105,684	424,027	299,773	1,180,832
1913..	722,038	2,352,153	419,287	1,991,613	67,403	269,612	321,771	1,306,218
1914..	343,289	1,118,614	386,314	1,352,099	29,059	116,236	265,198	1,071,565
1915..	585,873	1,905,766	285,251	1,141,004	23,826	95,304	275,523	1,116,506
1916..	654,433	2,617,732	472,507	2,008,155	41,950	167,800	300,851	2,255,725
1917..	643,757	3,218,785	389,048	2,155,326	31,649	181,982	181,408	1,106,488
1918..	580,433	5,966,609	425,087	3,300,127	32,654	213,884	212,570	1,554,575
1919..	383,253	3,939,906	649,506	4,886,662	565	3,602	100,336	890,217

### Output of Coke Showing Beehive and By-Product Coke Separately

(In short tons)

Calendar Year	Beehive	%	By-Product	%	Total
1909..	471,045	54.0	400,682	46.00	871,727
1910..	491,378	54.5	409,891	45.5	901,269
1911..	242,311	25.4	712,077	74.6	954,388
1912..	402,054	28.6	1,003,974	71.4	1,406,028
1913..	498,501	32.9	1,018,632	67.1	1,517,133
1914..	322,701	31.8	692,552	68.2	1,015,253
1915..	391,380	32.6	809,386	67.4	1,200,766
1916..	443,460	30.6	1,005,322	69.4	1,448,782
1917..	317,399	25.8	914,466	74.2	1,231,865
1918..	379,218	30.1	879,066	69.9	1,258,284
1919..	124,241	10.7	1,036,229	89.3	1,160,470

### Annual Exports of Coke

Calendar Year	Short Tons	Value	Calendar Year	Short Tons	Value
1897..	2,987	\$ 6,078	1908..	58,708	\$ 248,750
1898..	3,774	8,394	1909..	74,067	329,051
1899..	5,557	18,726	1910..	57,921	250,715
1900..	41,529	131,278	1911..	9,852	39,823
1901..	57,505	176,990	1912..	57,744	252,763
1902..	62,568	180,920	1913..	68,235	308,410
1903..	32,608	135,957	1914..	67,838	306,117
1904..	102,463	345,031	1915..	35,869	160,053
1905..	116,071	509,908	1916..	48,539	221,334
1906..	37,003	168,571	1917..	23,595	137,318
1907..	70,617	320,357	1918..	29,612	223,629
			1919..	14,709	129,703

### Annual Imports of Oven Coke

Calendar Year	Short Tons	Value	Calendar Year	Short Tons	Value
		\$			\$
1907	624,649	2,206,084	1913	723,906	2,180,830
1908	426,971	1,135,125	1914	553,046	1,585,259
1909	661,425	1,508,627	1915	637,857	1,608,464
1910	737,088	1,908,725	1916	757,116	2,229,078
1911	751,389	1,843,248	1917	970,106	6,517,260
1912	628,174	1,702,856	1918	1,163,590	8,975,445
			1919	383,374	2,405,740

The Nova Scotia coke was made at Sydney and Sydney Mines, the ovens formerly operated at Westville being idle throughout the year.

In Ontario the production came from the Algoma Steel Corporation plant at Sault Ste. Marie, and from the new ovens operated by the Steel Company of Canada, at Hamilton, Ont.

In Alberta the coke oven plants at Lille, Passburg and Coleman were idle.

In British Columbia coke was made by the Crow's Nest Pass Coal Company at Fernie and Michel, the Canadian Collieries (Dunsmuir), Limited, at Union Bay, and the Granby Consolidated Mining and Smelting Company at Anyox.

The coke production of the eastern provinces is used almost entirely in the iron and steel industry, while that of the western provinces is used chiefly by the copper and lead smelters, finding a market in the United States as well as in Canada.

### Coke Oven By-Products

The coke-oven plants at the Dominion Iron and Steel Company, at Sydney, N.S.; Sault Ste. Marie, and Hamilton, Ont.; and Anyox, B.C., are by-product plants, and the recoveries of coke oven by-products in 1919 included 12,394,249 gallons of tar; 11,765 tons of sulphate of ammonia, together with important quantities of benzol, toluol, and solvent naphtha and naphthalene.

### Annual Production of Coke Oven By-Products

Year	Tar	Sulphate of Ammonia	Year	Tar	Sulphate of Ammonia
	Gallons	Short Tons		Gallons	Short Tons
1901	2,662,612	1,614	1910	3,963,591	3,491
1902	4,094,135	2,393	1911	6,464,155	7,124
1903	3,281,249	3,207	1912	8,428,896	11,289
1904	1,649,197	1,773	1913	8,371,600	10,608
1905	3,407,784	2,500	1914	5,714,172	8,572
1906	3,725,723	2,304	1915	7,365,931	10,448
1907	4,424,615	1,738	1916	9,012,202	11,040
1908	4,450,166	3,342	1917	8,277,078	9,941
1909	4,016,824	3,416	1918	8,009,327	10,825
			1919	12,394,249	11,765

The imports of sulphate of ammonia in 1919 were reported as 203,408 pounds, valued at \$12,129, as against imports in 1918 of 8,427 pounds, valued at \$1,273; imports in 1917 of 566,969 pounds valued at \$26,062, imports in 1916 of 239,096 pounds, valued at \$9,672; imports in 1915 of 503,158 pounds, valued at \$14,637; and imports in 1914 of 763,597 pounds valued at \$21,335.

Exports of sulphate of ammonia during the twelve months ending December 31, 1919, were 18,488 tons, valued at \$1,821,880, as compared with exports in 1918 of 8,696 tons, valued at \$1,027,558. The exports during previous years have not been separately recorded.